

CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

20 May, 1991

Mr Akhtar Zaman - Director
Minerals Department
The Navajo Nation
P.O. Box 146
Window Rock, Arizona 86515

Ref: Application for Permit to Drill
Northwest Cajon 6-E Well, San Juan County, Utah

Dear Sir

Attached for your information are two copies of an Application for Permit to Drill the Northwest Cajon Well No. 6-E in San Juan County, Utah.

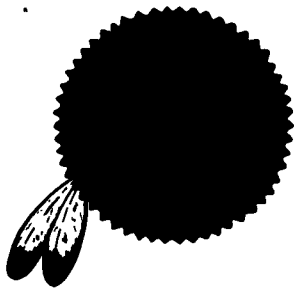
Please advise if you require additional information concerning this application.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\NWCAJON.6E\APDCOVER

encl.



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

20 May, 1991

State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Building, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

MAY 24 1991

DIVISION OF
OIL GAS & MINING

Ref: Application for Permit to Drill
Northwest Cajon 6-E Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Northwest Cajon Well No. 6-E in San Juan County, Utah. This well will be drilled as part of an ongoing exploration and development program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, due to the presence of numerous archaeological sites vertically above the bottomhole location, the well has to be drilled directionally. These archaeological sites preclude the surface well pad being located in accordance with State requirements. The bottomhole location also falls outside the State guidelines, but has been positioned so as to allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements on these grounds. Chuska Energy controls the acreage surrounding the proposed surface and bottomhole locations, as indicated on the attached land plat.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

Larry G. Sessions
Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\NWCAJON.6E\APDCOVER

encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEEN ☐

PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐
GAS WELL ☐
OTHER ☐

CONFIDENTIAL

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS OF OPERATOR

3315 Bloomfield Highway, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At Surface 1740' FNL, 470' FWL SWNW

At proposed prod. zone

1290' FNL, 923' FWL NWNW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

8 1/2 miles North of Aneth, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any) 727'

16. NO. OF ACRES IN LEASE
49,997

17. NO. OF ACRES ASSIGNED
TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2,143'

19. PROPOSED DEPTH AKAH
6,281' MD/6,151' TVD KB

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,063' GR/5,076' KB

22. APPROX. DATE WORK WILL START

8-12-91

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 lb	500'	371 sx 'G' + 2% CaCl ₂
7 7/8"	5 1/2"	15.5 lb	6,281' MD	856 sx 'G', 65:35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

RECEIVED

MAY 24 1991

DIVISION OF
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

[Signature]

TITLE Operations Engineer

DATE 20 May, 1991

(This space for Federal or State office use)

PERMIT NO.

43-037-31007

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

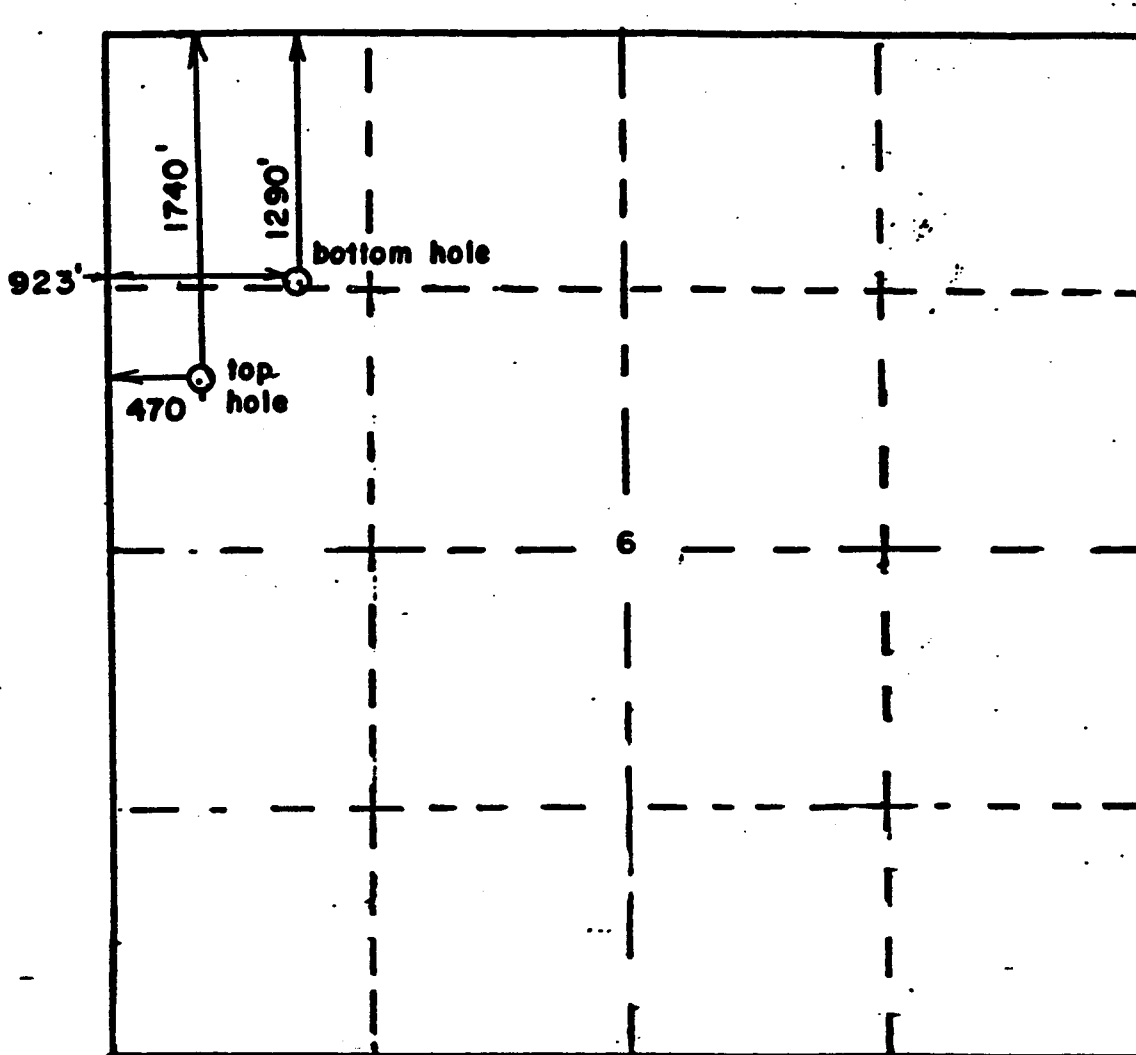
DATE: 6-10-91

BY: *[Signature]*
WELL SPACING: 615-3-3

*(See Instructions On Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to say to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Northwest Cajon 6-E

1740'FNL & 470'FWL (top hole)

1290'FNL & 923'FWL (bottom hole)

Section 6, T.40 S., R.25 E., SLM

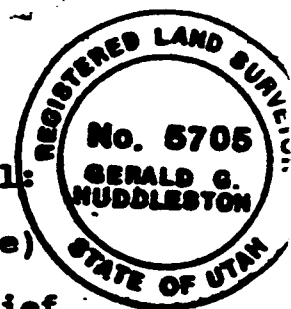
San Juan County, UT

5063' ground elevation

State plane coordinates from seismic control:

X = 2,662,774 Y = 253,511 (top hole)

X = 2,663,209 Y = 253,982 (bottom hole)



The above is true and correct to my knowledge and belief.

2 April 1991

Gerald G. Huddleston
Gerald G. Huddleston, LS

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Dakota/Burro Canyon

2. ELEVATION

Surface elevation is 5,063' GR/5,076' KB.

3. ESTIMATED FORMATION TOPS

<u>Depth</u> <u>TVD</u>	<u>Depth</u> <u>MD</u>	<u>Formation</u>	<u>Sub Sea</u> <u>Elevation</u>	
Surface	Surface	Burro Canyon	+ 5,076'	
176'	176'	Morrison	+ 4,900'	
1,260'	1,260'	Navajo	+ 3,816'	
1,948'	1,948'	Chinle	+ 3,128'	
3,050'	3,050'	DeChelly	+ 2,026'	
3,152'	3,152'	Organ Rock	+ 1,924'	
3,849'	3,849'	Cedar Mesa	+ 1,227'	
4,945'	4,963'	Hermosa	+ 131'	
5,880'	5,984'	Upper Ismay	- 804'	
5,988'	6,102'	Lower Ismay	- 912'	Secondary
6,046'	6,166'	Desert Creek	- 970'	Primary
6,086'	6,210'	Akah	- 1,010'	
6,151'	6,281'	Total Depth	- 1,075'	

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	6,281'	MD 5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft³) Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume calculated at 100% excess over annular volume.

Production Cementing:

First Stage

T.D. to 3,500' (stage collar @ \pm 3,500'). Lead with 242 sx Class 'G' cement, 65:35 Pozmix, with 6% gel, and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 159 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 629 ft³. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole. WOC 4 hours between stages.

Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 772 ft³. Cement volumes calculated at 30% excess in open hole.

Note: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (See attached schematics)

As abnormal pressure is not anticipated, a 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3,000'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps as necessary for hole cleaning.

3,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. Fluid loss to be further reduced to 15 cc or less prior to coring, logging or DSTs.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from T.D. to 4,500'.

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated to be 25 days. Anticipated spud date is 8-12-91.

EXHIBIT "A"
BLOWOUT PREVENTER

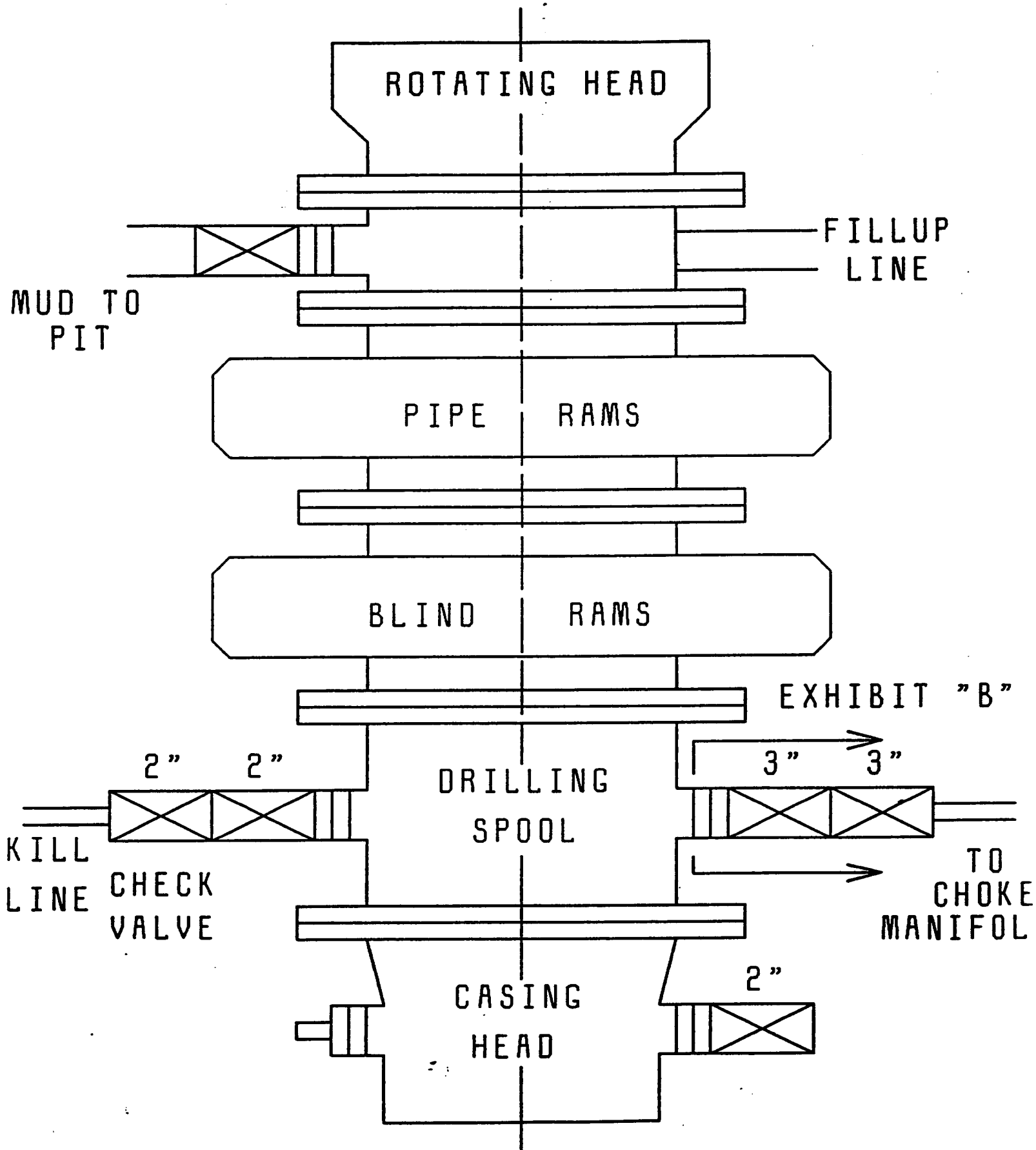
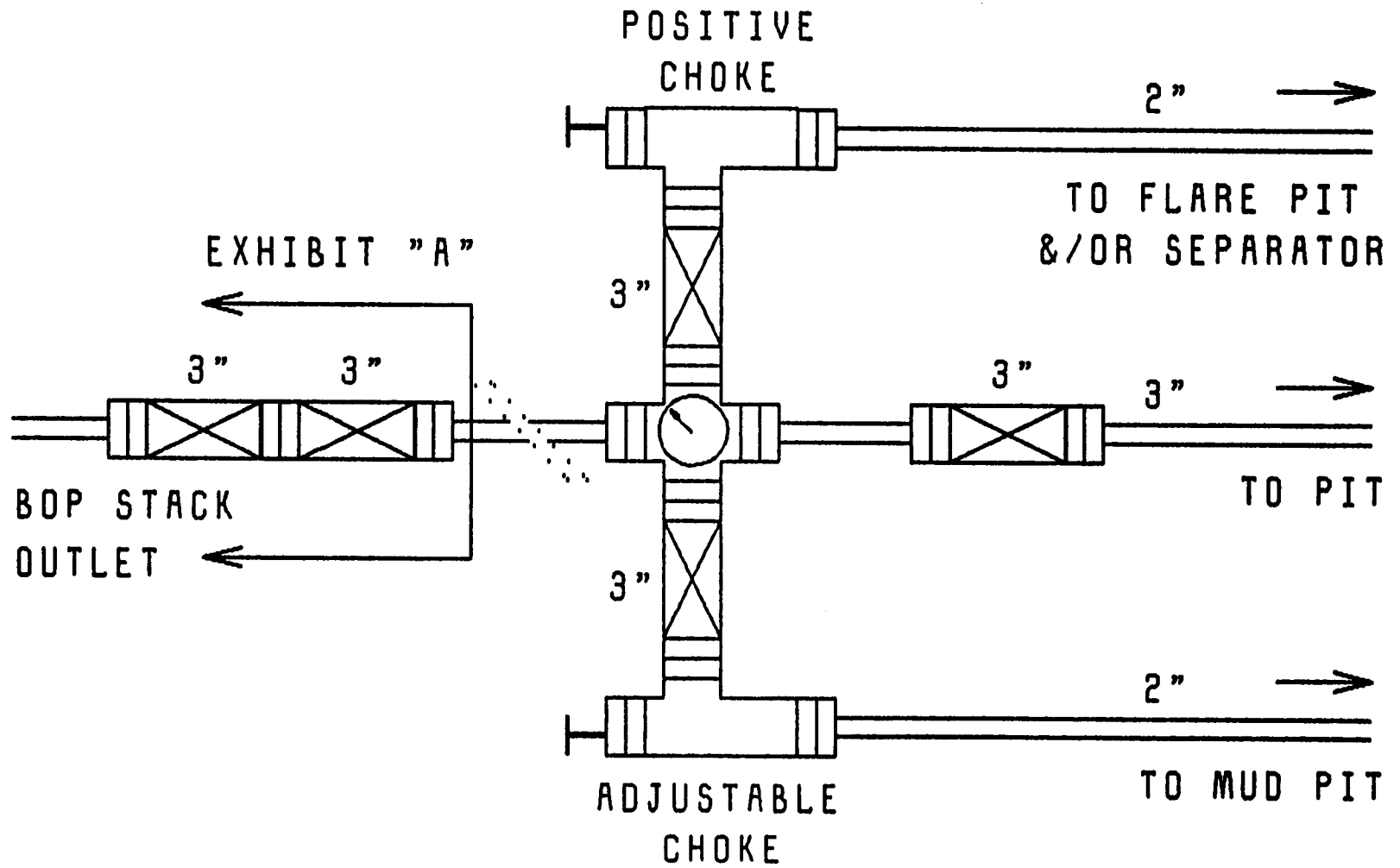


EXHIBIT "B"
CHOKE MANIFOLD



DETAILED DRILLING PROGRAM

DATE: 20 May, 1991

WELL NAME: Northwest Cajon **WELL NO.:** 6-E

LOCATION: Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

ELEVATION: 5,063' GR/5,076' KB

TOTAL DEPTH: 6,281' MD/6,151' TVD KB

PROJECTED HORIZON: Primary target is Desert Creek at 6,166' MD.
Secondary target is Lower Ismay at 6,102' MD.

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to 4,000'. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5°, with the maximum allowable rate of change to be 1°/100'. Take directional survey at 4,000'.
8. Rig up directional tools and start building angle, with rate of build 2° per 100 ft. Directional surveys are to be taken every 100', or as directed, while building angle.

9. Build angle to 24.25° by 5,212' MD/5,177' TVD. Continue drilling 7 7/8" hole to T.D. Directional surveys are to be taken at least every 250'.
10. Run multishot survey at total depth.
11. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.
12. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at \pm 3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.
13. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
14. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed on the Hovenweep road. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that less than 800' of new road will need to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The location of the North West Cajon 11-1 well is indicated on the attached topographic map.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a roughly north/south trend and will only require up to 6' of cut in the reserve pit (up to 4' of cut in the north eastern corner of the location pad) and up to 6' of fill in the south western corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87401
LARRY G. SESSIONS

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.


LARRY G. SESSIONS
Operations Manager

CHUSKA ENERGY COMPANY

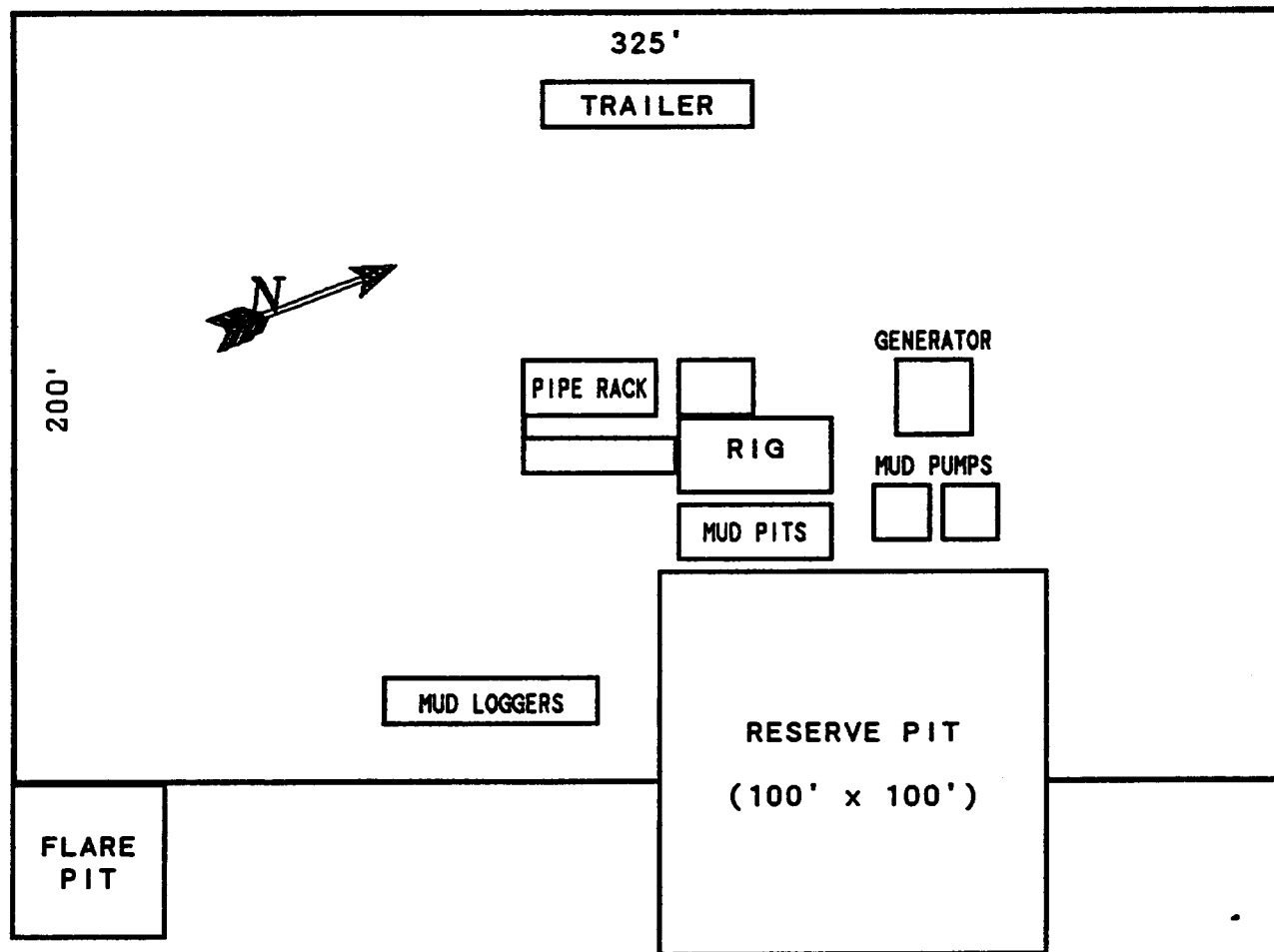
LOCATION LAYOUT

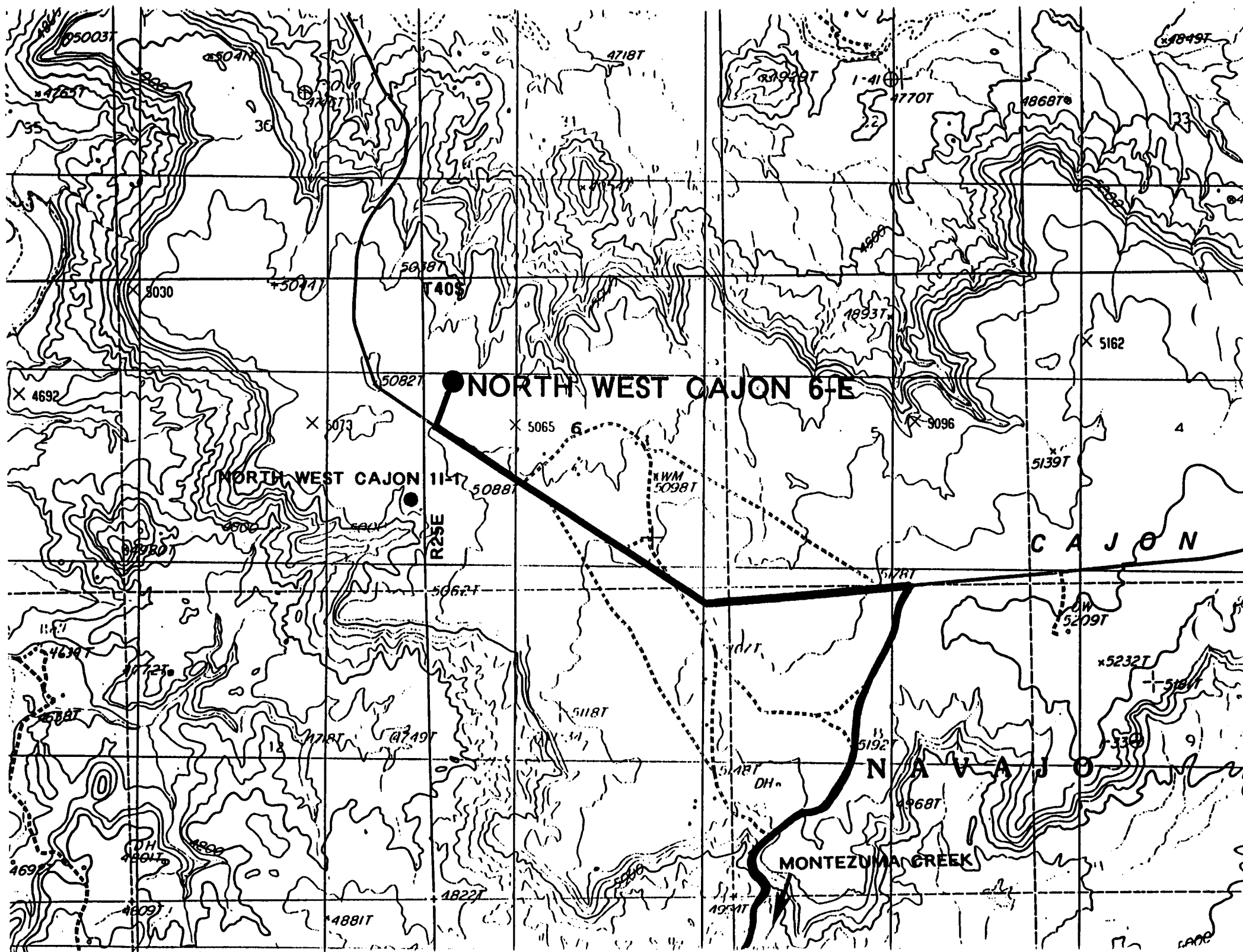
NORTH WEST CAJON-6-E

1740' FNL, 470' FWL

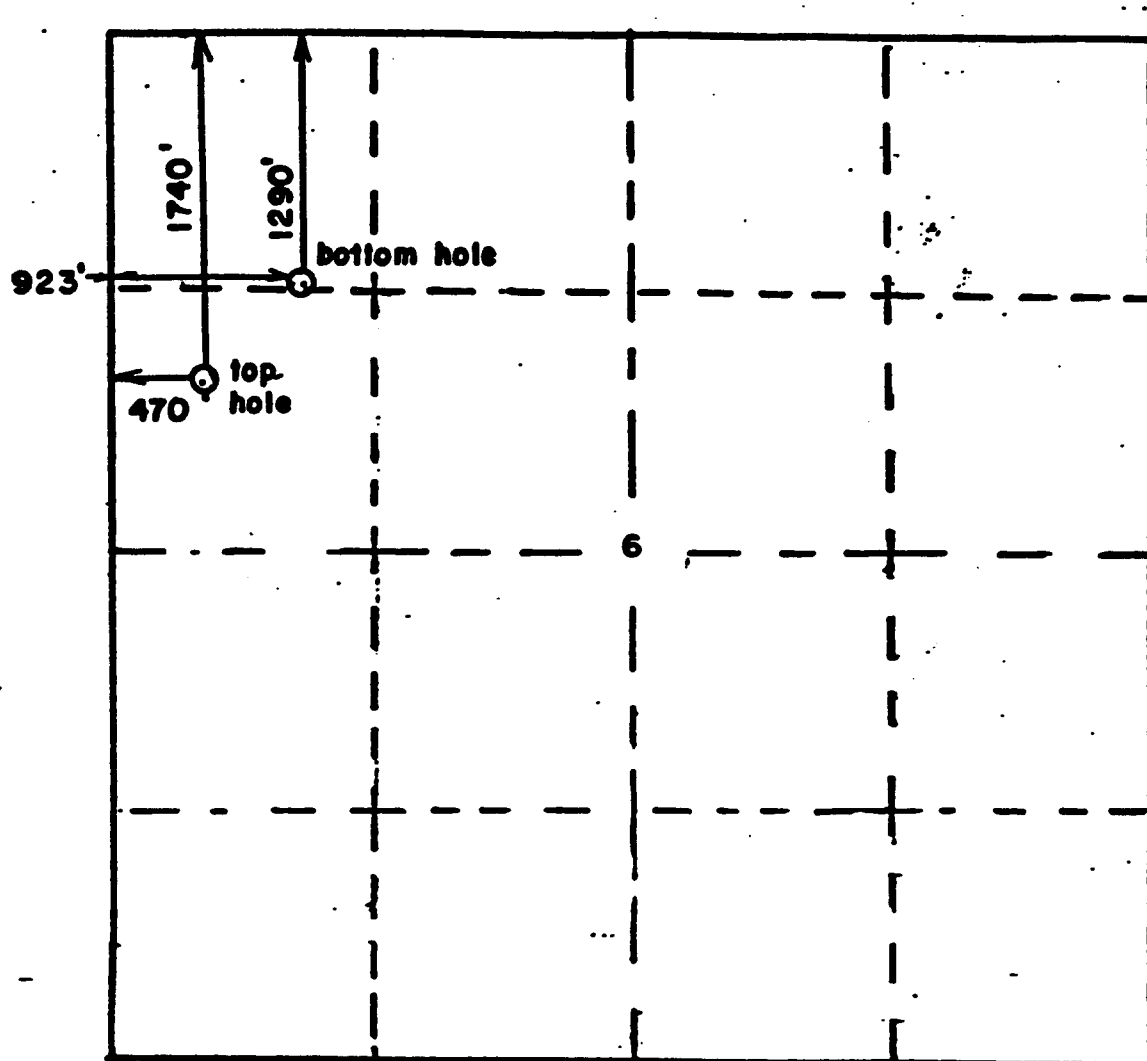
SECTION 6, TOWNSHIP 40S, RANGE 25E

SAN JUAN COUNTY, UTAH





WELL LOCATION PLAT



North
1" = 1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Northwest Cajon 6-E

1740' FNL & 470' FWL (top hole)

1290' FNL & 923' FWL (bottom hole)

Section 6, T.40 S., R.25 E., SLM

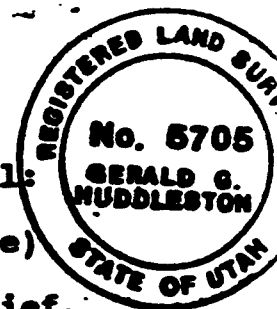
San Juan County, UT

5063' ground elevation

State plane coordinates from seismic control:

X = 2,662,774 Y = 253,511 (top hole)

X = 2,663,209 Y = 253,982 (bottom hole)



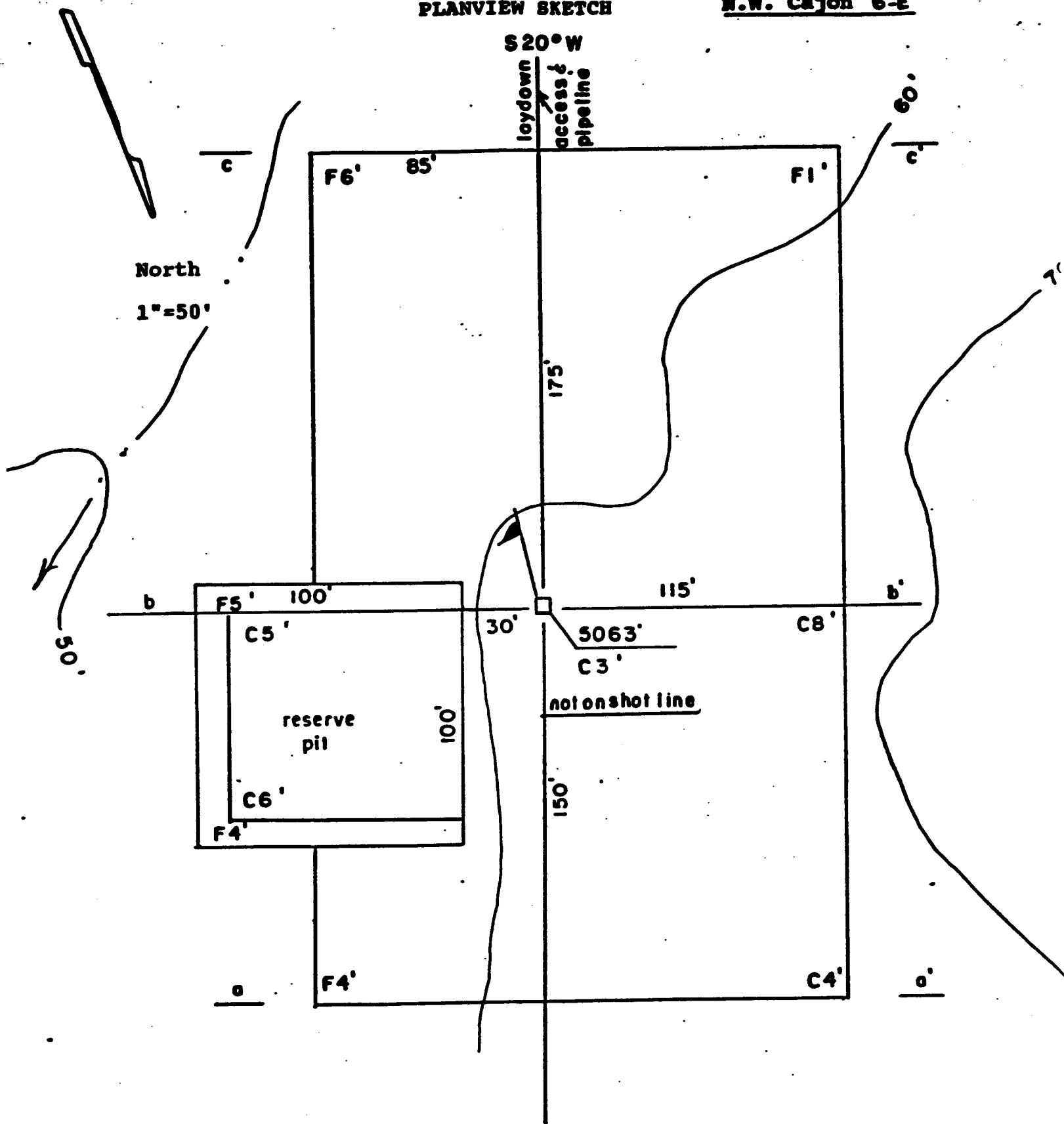
The above is true and correct to my knowledge and belief.

2 April 1991

Gerald G. Huddleston
Gerald G. Huddleston, LS

PLANVIEW SKETCH

N.W. Cajon 6-E



CROSS SECTION

N.W. Cajon 6-E

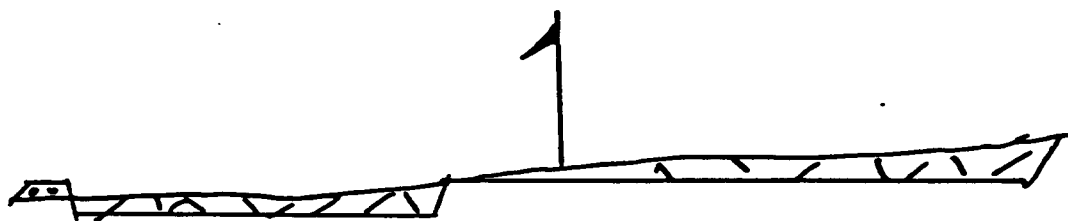
Cut /////
Fill -

1"=50' vert. & horz.



c

c'



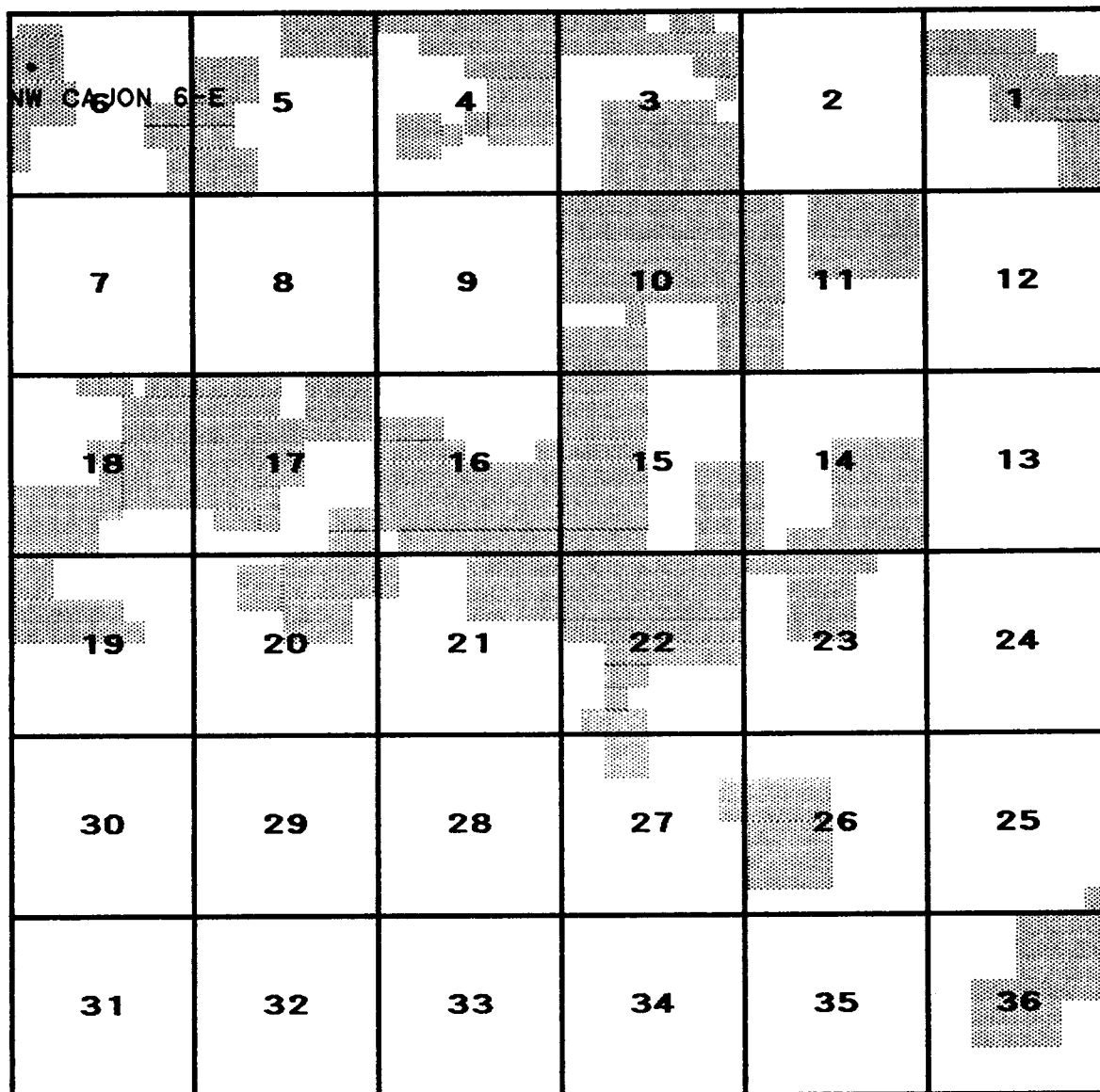
b

b'



a

a'

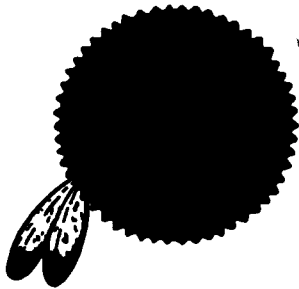


CHUSKA ENERGY COMPANY

ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT



CHUSKA: T40S-R25E, SAN JUAN COUNTY, UTAH



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

20 May, 1991

Bureau of Land Management
1235 La Plata Highway
Farmington, New Mexico 87401

ATTENTION: Ron Fellows

Ref: Application for Permit to Drill
Northwest Cajon 6-E Well, San Juan County, Utah

Dear Mr. Fellows,

Attached for your examination and approval is the original and six copies of an Application for Permit to Drill the Northwest Cajon Well No. 6-E in San Juan County, Utah. This well will be drilled as part of an ongoing exploration and development program.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

Larry G. Sessions
Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\NWCAJON.6E\APDCOVER

encl.

RECEIVED

JUN 03 1991

DIVISION OF
OIL GAS & MINING

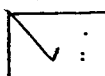
CONFIDENTIAL

OPERATOR Cruska Energy Co DATE 6.6.91
WELL NAME Northwest Canyon 1-E
SEC NW1/4 6 T 40S R 05E COUNTY San Juan

43-037-31W17
API NUMBER

Indian (v)
TYPE OF LEASE

CHECK OFF:



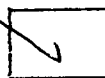
PLAT.



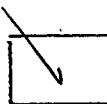
BOND



NEAREST
WELL



LEASE



FIELD
SLBM



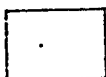
POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No producing well in Sec. 6 of above township - Range
Water Point 09-1704 (T64796) 09-1703 (T64795)
Exception Location requested

APPROVAL LETTER:

SPACING:



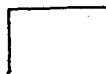
R615-2-3

N/A

UNIT



R615-3-2



N/A
CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

CC BIA

CONFIDENTIAL

PERIOD

EXPIRED

ON 10-18-92



Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

June 10, 1991

Chuska Energy Company
3315 Bloomfield Highway
Farmington, New Mexico 87401

Gentlemen:

Re: Northwest Cajon 6-E Well, Surf. 1740 feet from the North line, 470 feet from the West line, SW NW, BHL. 1290 feet from the North line, 923 feet from the West line, NW NW, Section 6, Township 40 South, Range 25 East, San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R.615-3-3.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.

Page 2
Chuska Energy Company
Northwest Cajon 6-E
June 10, 1991

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of Drinking Water/Sanitation, telephone (801) 538-6159.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31627.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we14/1-4

Form 3160-5-
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

RECEIVED
BLM

Lease Designation and Serial No.
NOG 8702-1116

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

6. If Indian, Allottee or Tribe Name
Navajo Tribal
7. If Unit or CA, Agreement Designation
019 FARMINGTON, N.M.

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil ☐ Gas ☐ Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

4. Location of Well (Footage, Sec., T., R., N., or Survey Description)

1740' FNL, 470' FWL, S6, T40S, R25E

8. Well Name and No.

North West Cajon 6-E

9. API Well No.

43-037-31627

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work, if well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Following re-evaluation of seismic data, it has been decided to deepen the well to 6,413' MD/6,276' TVD. Refer to attached revised 10-Point Drilling Plan.

14. I hereby certify that the foregoing is true and correct

Signed

Title Operations Engineer

Date 5 Jul 91

(This space for Federal or State Office use)

Approved by

Title

Date

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions On Reverse Side

OPERATOR

September 30, 1991

TO: File

FROM: Frank Matthews

RE: NW Cajon 6E, Sec. 6, T. 40S, R. 25E, San Juan County,
API No. 43-037-31627

Well was plugged and abandoned on 9/18/91 per Glenn Goodwin.

Handle as
WCF
DTS
10-3-91



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

September 7, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's
Reporting Requirements

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M
Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Crane 35H
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Heron 35H(A)
Jack 31G
Kokopelli 29I
Lark 19B
Lark 19B(G)
Lighting Rock 2E
Lizard 4M
Lone Mountain Creek 12F-1

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

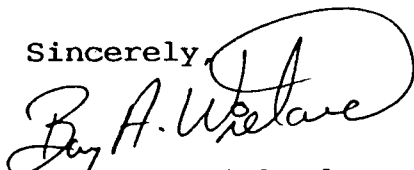
Monument 17E-2
Mule 31K
Mule 31K(N)
Mule 31M
NW Cajon 1I-1
North Heron 35C
Northwest Cajon 6E
North Cajon Mesa 5E-1
North Ruins 16K
Red Lake 25B
Tower 1F
Box Canyon 5F
Shalene 11K
South Triangle 7I
West Clay Hill 5B(A)

LOGS

Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Jack 31G
Kokopelli 29I
Lark 19B(G)
Lighting Rock 2E
Lone Mountain Creek 12F-1
Mule 31K(N)
Mule 31M
North Cajon Mesa 5E-1
North Heron 35C
N.W. Cajon 1I-1
N.W. Cajon 6E
Red Lake 25B
West Clay Hill 5B(A)

If you should have any further questions, please don't
hesitate to contact me, or Nell Lindenmeyer, at 505-326-
5525.

Sincerely,



Barry A. Wieland
Operations Manager

Enclosures

cc: Well File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1. LEASE DESIGNATION AND SERIAL NO.
NOG 8702 - 1116

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

N/A

3. FARM OR LEASE NAME

8. WELL NO.

NorthWest Cajon 6E

10. FIELD AND POOL OR WILDCAT

Wildcat

11. SEC. T. & N. OR BLOCK AND CORNER OR AREA

Sec. 6, T40S, R25E

12. COUNTY

San Juan

12. STATE

Utah

13. ELEVATIONS (OF. SUR. AT, OR, ETC.)

5063 GR/5076 KB

13. ELEV. CASINGHEAD

5063 GR

ROTARY TOOLS

Yes

CABLE TOOLS

Yes

14. WAS DIRECTIONAL SURVEY MADE

Yes

15. WAS WELL CORED YES ☐ NO ☐ (See remarks column)

DRILL STEM TEST YES ☐ NO ☐ (See remarks column)

16. TYPE OF WELL: OIL ☐ GAS ☐ DRY ☒ Other

17. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESTR. ☒ Other

18. NAME OF OPERATOR

Chuska Energy Company

19. ADDRESS OF OPERATOR

3315 Bloomfield Highway, Farmington, N.M. 87401

505-326-5525

20. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1740 FNL, 470 FWL (Surface)

At 100 prod. interval reported below

1290' FNL, 923' FWL (Subsurface)

At total depth

Same

21. DATE SPUNDED

8-27-91

22. DATE T.D. REACHED

9-17-91

23. DATE COMPL. (Ready to prod.)

9-20-91 P&A (Plug & Abandon)

24. ELEVATIONS (OF. SUR. AT, OR, ETC.)

5063 GR/5076 KB

25. ELEV. CASINGHEAD

5063 GR

26. TOTAL DEPTH, MD & TVD

6336' MD

27. PLUG BACK T.D. MD & TVD

Surface

28. IF MULTIPLE COMPL. HOW MANY

29. INTERVALS DRILLED BY

30. ROTARY TOOLS

Yes

31. CABLE TOOLS

Yes

32. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

None

33. TYPE ELECTRIC AND OTHER LOGS LOG

9-10-93

34. TYPE LOGS LOG

DLI/MSFL/GR/CAL, CNL/LD, BHC/Sonic/GR, CYBERLOG

35. CASING RECORD (Report all strings set in well)

CASING SIZE

8 5/8" K-55

WEIGHT, LB./FT.

24#

DEPTH SET (MD)

526

HOLE SIZE

12 1/4

CEMENTING RECORD

1375 sx 'G' & 2% CaCl2 & 1/4#/sx D-29. Circulate 30 bbls cement slurry to reserve pit

36. LINER RECORD

37. TUBING RECORD

38. PRODUCTION RECORD (Assigned, size and number)

39. ACID, SHOT, FRACTURE CEMENT SQUEEZING, ETC.

40. DEPTH INTERVAL (MD)

41. AMOUNT AND KIND OF MATERIAL USED

42. DATE FIRST PRODUCTION

43. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

44. WELL STATUS (Producing or Abandoned)

45. DATE OF TEST

46. HOURS TESTED

47. CROCK SIZE

48. PROD. FOR TEST PERIOD

49. OIL—BBL

50. GAS—MCF

51. WATER—BBL

52. GAS-OIL RATIO

53. FLOW. TUBING PRESS.

54. CASING PRESSURE

55. CALCULATED 24-HOUR RATE

56. OIL—BBL

57. GAS—MCF

58. WATER—BBL

59. OIL GRAVITY-API (CORR.)

60. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

61. TEST WITNESSED BY

62. LIST OF ATTACHMENTS

63. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED BARRY A. WIELAND TITLE OPERATIONS MANAGER DATE 5-27-93

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.

Formation	Top	Bottom	Description, contents, etc.
Core #1	6201'	6261'	Desert Creek, 100% Recovery

38.

GEOLOGIC MARKERS

Name	Top	
	Meas. Depth	True Vert. Depth
Hermosa	4970'	4943'
U Ismay	5967'	5897'
Hovenweep Sh	6087'	6008'
L Ismay	6090'	6010'
Gothic Sh	6114'	6033'
Desert Creek	6136'	6053'
Chimney Rock	6270'	6176'
Akah	6294'	6198'

1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

NOG 8702-1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

NW Cajon 6E

9. API WELL NO.

43-037-31627

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

S6, T40S, R25E

12. COUNTY OR
PARISH
San Juan13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REGRV. ☐ Other P&A

2. NAME OF OPERATOR

Chuska Energy

3. ADDRESS AND TELEPHONE NO.

3315 Bloomfield Hwy, Farmington, NM 87401 1-505-326-5525

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1740 FNL, 470 FWL (surface)

At top prod. interval reported below

1290' FNL, 923' FWL (subsurface)

At total depth Same

14. PERMIT NO.

DATE ISSUED

43-037-31627

8-8-91

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (OF. RKB, RT. GR, ETC.)*

19. ELEV. CASINGHEAD

8-28-91

9-17-91

9-20-91 P&A

5063 Gr/5076 Kb

5063 Gr

20. TOTAL DEPTH, MD & TVD

21. PLUG BACK T.D., MD & TVD

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

6336 MD

Surface

Yes

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

NONE

25. WAS DIRECTIONAL
SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL/MSFL/GR/CAL

CNL/LD

BHC/Sonic/GR

27. WAS WELL CORED

Yes

29. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
85/8 K-55	24	506	12 1/4	385 sx 'G' & 2% CaCl2 & 1/4 #/sx D-29. Circulate 30 bbls cement slurry to reserve pit	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

SEP 10 1993

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
P&A							
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

OPERATOR

ACCEPTED FOR RECORD

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

Lang H. Chandross

TITLE

Production Engineer

DATE

OCT 28 1991

FARMINGTON RESOURCE AREA

(See Instructions and Spaces for Additional Data on Reverse Side)

43-037-31627

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Core #1	6201'	6261'	Desert Creek, 100% Recovery	Hermosa U Ismay Hovenweep Sh L Ismay Gothic Sh Desert Creek Chimney Rock Akah	4970' 5967' 6087' 6090' 6114' 6136' 6270' 6294'	4943' 5897' 6008' 6010' 6033' 6053' 6176' 6198'

SFP 10 1993

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) <u>P & A</u>		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Highway, Farmington, N.M. 87401		8. Unit or Communitization Agreement N/A
4. Telephone Number 505-326-5525		9. Well Name and Number North West Caion 6E 1
5. Location of Well 1740' FNL, 470' FWL (Surface) Footage : 1290' FNL, 923' FWL QQ, Sec. T., R., M. : Sec 6, T40S, R25E		10. API Well Number 43-037-31627
		11. Field and Pool, or Wildcat Wildcat
County : San Juan State : UTAH		

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other <u>Final Abandonment</u>	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate Date Work Will Start _____		Date of Work Completion _____	
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.			

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

FINAL ABANDONMENT NOTICE

REHAB COMPLETED ON 4-20-92.

SEP 10 1993

14. I hereby certify that the foregoing is true and correct

Name & Signature BARRY A. WIELAND Title OPERATIONS MANAGER Date 5-27-93
 (State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED

Budget Project No. 2004-0135

Expires March 31, 2003

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allocated or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

NORTH WEST CAJON 6E-1

9. API Well No.

43-037-31627

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SURFACE: 1740' FNL, 470' FWL

SUB-SURFACE: 1290' FNL, 923' FWL

S6-T40S-R25E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☒ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

FINAL ABANDONMENT NOTICE.

REHAB COMPLETED ON 4-20-92.

SEP 10 1993

14. I hereby certify that the foregoing is true and correct

Signed



Title

OPERATIONS MANAGER

Date

5-20-92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Hwy, Farmington, N.M.. 87401		8. Unit or Communitization Agreement N/A
4. Telephone Number 505-326-5525		9. Well Name and Number North West Cajon 6E 1
5. Location of Well Footage : 1740' FNL, 470' FWL (Surface) County : San Juan QQ, Sec. T., R., M. : 1290' FNL, 923' FWL (Subsurface) State : UTAH Sec. 6, T40S, R25E		10. API Well Number 43-037-31627
11. Field and Pool, or Wildcat Wildcat		
12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____
Approximate Date Work Will Start _____		Date of Work Completion _____
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.		

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PLUG #	FROM, MD	TO, MD	SX	ZONES COVERED
1	6336'	5917'	250	Akah, Chimney Rock, DC, Gothic Sh., L. Ismay, Hovenweep, U Ismay
2	5020'	4920'	60	Hermosa
3	3095'	2995'	60	DeChelly
4	2015'	1915'	60	Chinle
5	575'	475'	60	Casing Shoe
6	50'	0'	25	Surface

All plugs were Class 'G' Neat cement. Plugs 5 and 6 contained 2% Calcium Chloride
 All plugs were displaced with mud. Verbal approval was received from Steve Mason (BLM)
 @ 11:06 A.M., 9-18-91. P&A on 9-18-91.

14. I hereby certify that the foregoing is true and correct.

Name & Signature BARRY A. WIELAND Title OPERATIONS MANAGER Date 5-27-93
 (State Use Only)

SEP 10 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other P&A

2. Name of Operator
Chuska Energy Company

3. Address and Telephone No.
3315 Bloomfield Highway, Farmington, NM 87401 1-505-326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1740' FNL, 470'FWL (surface)
1290' FNL, 923'FWL (subsurface)
6-T-40S-R25E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plug#	From (md)	To (md)	#Sx	Zones Covered
1	6336'	5917'	250	Akah, Chimney Rock, DC, Gothic Sh, L Ismay, Hovenweep, U Ismay
2	5020'	4920'	60	Hermosa
3	3095'	2995'	60	DeChelly
4	2015'	1915'	60	Chinle
5	575'	475'	50	Casing Shoe
6	50'	0'	25	Surface

All plugs were Class 'G' Neat cement. Plugs 5 and 6 contained 2% Calcium Chloride
All plugs were displaced with mud. Verbal approval was received from Steve Mason (BLM)
@ 11:06 AM on 9-18-91. P&A on 9-18-91.

14. I hereby certify that the foregoing is true and correct

Signed Gary A. Champion Title Production Engineer Date 10/12/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any: _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

9-18-91

NW CAJON 6-E P&A DATA SHEET

PHONE RECORDING: 326-6201 MARK KELLEY (BLM)

DATE: 9-18-91

TIME: 1730 HRS

SEP 10 1993

COMPANY: CHUSKA ENERGY CO

TYPE JOB: P & A

TIME OF PLUGGING OR CEMENTING: 0100 9-19-91

WELL NAME: NW CAJON 6-E

WELL LOCATION: SECT 6-T40S-R25E SAN JUAN, UT

LEASE DESIGNATION NO: NOG 8702-1116

HOLE SIZE: 7 7/8"

CASING SIZE: OPEN HOLE

SURFACE CASING TD: 525' W/ 12 JTS 8 5/8", 24#, K-55 ST&C

CASING OR DRILLERS TD (PBSD): 6336'

CEMENT CONTRACTOR: DOWELL

DRILLING/COMPLETION CONTRACTOR: AZTEC RIG NO. 222

P&A PROGRAM

PLUG #	FROM, MD	TO, MD	#SX	ZONE COVERED	FORMATION
					TOP
1	6336	5917	250	AKAH	6294
				CHIMNEY RK	6270
				DC	6136
				GOTHIC SHALE	6114
				LOWER ISMAY	6090
				HOVENWEEP	6087
				UPPER ISMAY	5967
2	5020	4920	60	HERMOSA	4970
3	3095	2995	60	DeChelly	3045
4	2015	1915	60	CHINLE	1965
5	575	475	50	CASING SHOE	
6	50	0	25	SURFACE	
			505		

ALL PLUGS WILL BE CLASS 'G' HEAT CEMENT. PLUGS 1-5 WILL CONTAIN 2% CALCIUM CHLORIDE. PLUG 6 WILL BE SET WITH MUD. VERBAL APPROVAL FROM STEVE MASON (BLM) 9-18-91.

9-18-91

NW CAJON 6-E P&A DATA SHEET

PHONE RECORDING: 326-6201 MARK KELLEY (BLM)

DATE: 9-18-91

TIME: 1730 HRS

COMPANY: CHUSKA ENERGY CO

TYPE JOB: P & A

TIME OF PLUGGING OR CEMENTING: 0100 9-19-91

WELL NAME: NW CAJON 6-E

WELL LOCATION: SECT 6-T40S-R25E SAN JUAN, UT

LEASE DESIGNATION NO: NOG 8702-1116

HOLE SIZE: 7 7/8"

CASING SIZE: OPEN HOLE

SURFACE CASING TD: 525' W/ 12 JTS 8 5/8", 24#, K-55 ST&C

CASING OR DRILLERS TD (PBSD): 6336'

CEMENT CONTRACTOR: DOWELL

DRILLING/COMPLETION CONTRACTOR: AZTEC RIG NO. 222

P&A PROGRAM

PLUG #	FROM, MD	TO, MD	#SX	ZONE COVERED	FORMATION
					TOP
1	6336	5917	250	AKAH	6294
				CHIMNEY RK	6270
				DC	6136
				GOTHIC SHALE	6114
				LOWER ISMAY	6090
				HOVENWEEP	6087
				UPPER ISMAY	5967
2	5020	4920	60	HERMOSA	4970
3	3095	2995	60	DeChelly	3045
4	2015	1915	60	CHINLE	1965
5	575	475	50	CASING SHOE	
6	50	0	25	SURFACE	
			505		

ALL PLUGS WILL BE CLASS 'G' NEAT CEMENT. PLUGS 5 AND 6 WILL
CONTAIN 2% CALCIUM CHLORIDE. ALL PLUGS WILL BE DISPLACED WITH MUD.
VERBAL APPROVAL FROM STEVE MASON (BLM) @ 11:06AM ON 9-18-91.

100-30 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Hwy. Farmington, NM 87401 (505)326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1740' FNL, 470' FWL
Section 6 - T40S - R25E

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NOC 8702-1116

6. If Indian, Altonne or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

8. Well Name and No.

North West Cajon 6E-1

9. API Well No.

43-037-31627

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan Co, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

P&A PROGRAM

Approved as to plugging of the well bore.
Liability under bond is retained until
surface restoration is completed.

PLUG #	FROM, MD	TO, MD	#SX	ZONE COVERED
1	6336	5917	250	AKAH, DC, ISMAY
2	5020	4920	60	HERMOSA
3	3095	2995	60	DeChelly
4	2015	1915	60	CHINLE
5	575	475	50	CASING SHOE
6	50	0	25	SURFACE
			505	

ALL PLUGS WILL BE CLASS 'G' NEAT CEMENT. PLUGS 5 AND 6 WILL CONTAIN 2% CALCIUM CHLORIDE. ALL PLUGS WILL BE DISPLACED WITH MUD. VERBAL APPROVAL FROM STEVE MASON (BLM) @ 11:06AM ON 9-18-91.

14. I hereby certify that the foregoing is true and correct

Signed Gary R. Whitten

Title Production Engineer

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

APPROVED

Date 9/22/91

OCT 09 1991

Date _____

AREA MANAGER

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

OPERATOR

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) P & A		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Hwy, Farmington, N.M. 87401		8. Unit or Communitization Agreement N/A
4. Telephone Number 505-326-5525		9. Well Name and Number North West Cajon 6E 1
5. Location of Well 1290' FNL, 923' FWL (Subsurface) Footage : 1740' FNL, 470' FWL (Surface) QQ, Sec. T., R., M. : Sec. 6, T40S, R25E		10. API Well Number 43-037-31627
		11. Field and Pool, or Wildcat Wildcat

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other P & A	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate Date Work Will Start _____		Date of Work Completion _____	
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.			

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

P&A PROGRAM:

PLUG #	FROM, MD	TO, MD	#SX	ZONE COVERED
1	6336'	5917'	250	Akah, DC, Ismay
2	5020'	4920'	60	Hermosa
3	3095'	2995'	60	DeChelly
4	2015'	1915'	60	Chinle
5	575'	475'	50	Casing Shoe
6	50'	0'	25	Surface
			505	

All plugs will be Class 'G' Neat cement. Plugs 5 and 6 will contain 2% Calcium Chloride. All plugs will be displaced with mud. Verbal approval from Steve Mason (BLM) @ 11:06 A.M., 9-18-91.

14. I hereby certify that the foregoing is true and correct

Name & Signature BARRY A. WIELAND Title OPERATIONS MANAGER Date 5-27-93
(State Use Only)

SEP 10 1993

SEP 10 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Hwy. Farmington, NM 87401 (505)326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1740^s FNL, 470' FWL
Section 6 - T40S - R25E

CONFIDENTIAL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Alton or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

8. Well Name and No.

North West Cajon 6E-1

9. API Well No.

43-037-31627

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan Co, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☐
- Other
- P&A*
-
- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

P&A PROGRAM

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

PLUG #	FROM, MD	TO, MD	#SX	ZONE COVERED
1	6336	5917	250	AKAH, DC, ISMAY
2	5020	4920	60	HERMOSA
3	3095	2995	60	DeChelly
4	2015	1915	60	CHINLE
5	575	475	50	CASING SHOE
6	50	0	25	SURFACE
			505	

ALL PLUGS WILL BE CLASS 'G' NEAT CEMENT. PLUGS 5 AND 6 WILL
CONTAIN 2% CALCIUM CHLORIDE. ALL PLUGS WILL BE DISPLACED WITH MUD.
VERBAL APPROVAL FROM STEVE MASON (BLM) @ 11:06AM ON 9-18-91.

14. I hereby certify that the foregoing is true and correct

Signed *Paul H. Chamberlain*

Title Production Engineer

(This space for Federal or State office use)

Approved by:

Conditions of approval, if any:

Title

APPROVED

Date 9-20-91

OCT 09 1991

AREA MANAGER

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*See instruction on Reverse Side

OPERATOR

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 1 North West Cajon 6E

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 326-6201.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

Office Hours: 7:45 a.m. to 4:30 p.m.

SEP 10 1993

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number

NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

N/A

9. Well Name and Number

North West Cajon 6E 1

10. API Well Number

43-037-31627

11. Field and Pool, or Wildcat

Wildcat

1. Type of Well to which this notice applies
☐ Oil Well ☐ Gas Well ☐ Other (specify)

2. Name of Operator

Chuska Energy Company

3. Address of Operator

3315 Bloomfield Hwy, Farmington, N.M. 87401

4. Telephone Number

505-326-5525

5. Location of Well

1290' FNL, 923' FWL (Subsurface)

Footage : 1740' FNL, 470' FWL (surface)

QQ, Sec. T., R., M. : Section 6, T40S, R25E

County : San Juan

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE REPORT REQUIRED

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other Spud/Surface Casing | |

Approximate Date Work Will Start

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | |

Date of Work Completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Notification of spud with Aztec Well Service Rig #222 @ 2000 hrs., 8-27-91, by Larry A. Chambers to Mark Kelley. Drilled 12 1/4" hole to 526'. Rigged up and ran 12 joints 8 5/8", 24#/ft., K-55, STC casing with guide shoe and float collar. Landed @ 526'. Cemented with 375 sx Class 'G' cement with 2% CaCl₂ and 1/4#sx Celloflake. Circulated cement to surface. Completed cementing 8-28-91.

SEP 10 1993

14. I hereby certify that the foregoing is true and correct

Name & Signature

BARRY A. WIELAND

Title OPERATIONS MANAGER Date 5-27-93

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Designation and Serial No. NOG 8702-1116
2. Name of Operator CHUSKA ENERGY COMPANY		6. If Indian, Allottee or Tribe Name Navajo Tribal
3. Address and Telephone No. 315 Bloomfield Highway, Farmington, New Mexico 87401 1(505)326-5525		7. If Unit or CA, Agreement Designation XXXXXX
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1740' FNL, 470' FWL Section 6-T40S-R25E		8. Well Name and No. North West Cajon 6E-1
		9. API Well No. 43-037-31627
		10. Field and Pool, or Exploratory Area Wildcat
		11. County or Parish, State San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>SPUD/SURFACE CSG NOTICE</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Notification of spud, w/ Aztec Well Service Rig #222 @2000 hrs, 8-27-91 by Larry A. Chambers to Mark Kelley. Drilled 121/4" hole to 526'. Rigged up and ran 12 joints 8 5/8, 24 #/ft, K-55, STC casing w/guide shoe and float collar. Landed @ 526'. Cemented w/375 sx Class 'G' cement w/ 2' CaCl2 and 1/4 lb/sk cello flake. Circulated cement to surface. Completed cementing 8-28-91.

SEP 10 1991

14. I hereby certify that the foregoing is true and correct

Signed Larry A. Chambers

Title Production Eng.

ACCEPTED FOR RECORD
Date 8/29/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

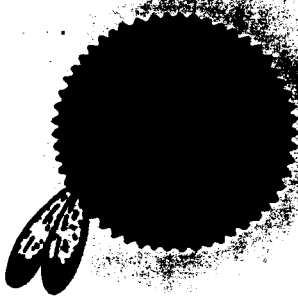
FARMINGTON RESOURCE AREA

BY SM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

OPERATOR



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

August 29, 1991

Bureau of Land Management
1235 La Plata Highway
Farmington, New Mexico 87401

Attn: Mr. Ron Fellows

RE: Sundry Notice: Northwest Cajon 6E Well
Spud/Surface Casing Sundry Notice

Dear Mr. Fellows,

Attached for your examination and approval are the original and six copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

315 Bloomfield Highway, Farmington, New Mexico 87401 (505)328-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1740' FNL, 470' FWL
Section 6-T40S-R25E

FORM APPROVED

Budget Number No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 5702-1116

6. If Indian, Allotment or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

XXXXXX

8. Well Name and No.

North West Cajon 6E-1

9. API Well No.

43-037-31627

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Pumping Back
☐ Casing Repair
☐ Altering Casing
☒ Other SPUD/SURFACE CSG NOTICE
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Notification of spud, w/ Aztec Well Service Rig #222 @2000 hrs, 8-27-91 by Larry A. Chambers to Mark Kelley. Drilled 12 1/4" hole to 526'. Rigged up and ran 12 joints 8 5/8, 24 #/ft, K-55, STC casing w/guide shoe and float collar. Landed @ 526'. Cemented w/375 sx Class 'G' cement w/ 2' CaCl2 and 1/4 lb/sk cello flake. Circulated cement to surface. Completed cementing 8-28-91.

14. I hereby certify that the foregoing is true and correct

Signed

Larry A. Chambers

Title

Production Eng.

Date

8/29/91

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS			6. Lease Designation and Serial Number NOC 8702-1116
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____			7. Indian Allottee or Tribe Name Navajo Tribal
2. Name of Operator Chuska Energy Company			8. Unit or Communitization Agreement
3. Address of Operator 3315 Bloomfield Highway, Farmington, N.M. 87401			9. Well Name and Number NorthWest Cajon 6-E
4. Telephone Number 505-326-5525			10. API Well Number 43-037-31627 X
5. Location of Well 1290' FNL, 923' FWL (Subsurface) Footage : 1740' FNL, 470' FWL, (Surface) QQ, Sec. T., R., M. : Sec. 6, T40S, R25E			11. Field and Pool, or Wildcat Wildcat
12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input checked="" type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

** Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Following re-evaluation of seismic data, it has been decided to deepen the well to 6,418' MD/6,276', TVD. Refer to attached revised 10-Point Drilling Plan.

14. I hereby certify that the foregoing is true and correct

Name & Signature

BARRY A. WIELAND

Title OPERATIONS MANAGER Date 5-27-93

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT---" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Highway, Farmington, NM 87401

505-326-5525

4. Location of Well (Footage, Sec., T., R., N., or Survey Description)

1740' FNL, 470' FWL, S6, T40S, R25E

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1991

5. Lease Designation and Serial No.

NOG 8702-1116

6. IF Indian, Allottee or Tribe Name

Navajo Tribal

7. IF Unit or CA, Agreement Designation

8. Well Name and No.

North West Cajon 6-E

9. API Well No.

43-037-31627

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work, if well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Following re-evaluation of seismic data, it has been decided to deepen the well to 6,418' MD/6,276' TVD. Refer to attached revised 10-Point Drilling Plan.

14. I hereby certify that the foregoing is true and correct

Signed

Title Operations Engineer

Date 5 Jul 91

(This space for Federal or State office use)

Approved by

Conditions of approval, if any

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to any matter within its jurisdiction.

*See Instructions On Reverse Side

(November 1983)
(Form No. 9-331C)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in triplicate
(Other instructions on
reverse)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116		
b. TYPE OF WELL OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal		
2. NAME OF OPERATOR Chuska Energy Company		7. UNIT AGREEMENT NAME		
3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, NM 87401		8. FARM OR LEASE NAME Northwest Cajon		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At Surface 1740' FNL, 470' FWL At proposed prod. zone 1290' FNL, 923' FWL		9. WELL NO. 6-E		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 8 1/2 miles North of Aneth, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat		
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 727'		11. SEC., T., R., N., OR S.E. AND SURVEY OR AREA S6 T40S R25E		
16. NO. OF ACRES IN LEASE 49,997		12. COUNTY OR PARISH San Juan		
17. NO. OF ACRES ASSIGNED TO THIS WELL		13. STATE Utah		
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2,143'		20. ROTARY OR CABLE TOOLS Rotary		
19. PROPOSED DEPTH 6,281' MD/6,151' TVD KB		22. APPROX. DATE WORK WILL START 8-12-91		
21. ELEVATIONS (Show whether OF, BT, GR, etc.) 5,063' GR/5,076' KB This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4		23. DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLETION WITH ATTACHED		
23. PROPOSED CASING AND CEMENTING PROGRAM		QUANTITY OF CEMENT		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 lb	500'	371 sx 'G' + 2% CaCl ₂
7 7/8"	5 1/2"	15.5 lb	6,281' MD 6' 7/8"	856 sx 'G', 65:35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

NOTE:
APD Approved by DOG-m
on 6/10/91
ETS

SEP 10 1990

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED

TITLE Operations Engineer

DATE 20 May, 1991

(This space for Federal or State office use)

PERMIT NO.

43-037-31627

APPROVAL DATE

APPROVED
AS AMENDED

APPROVED BY

TITLE

DATE

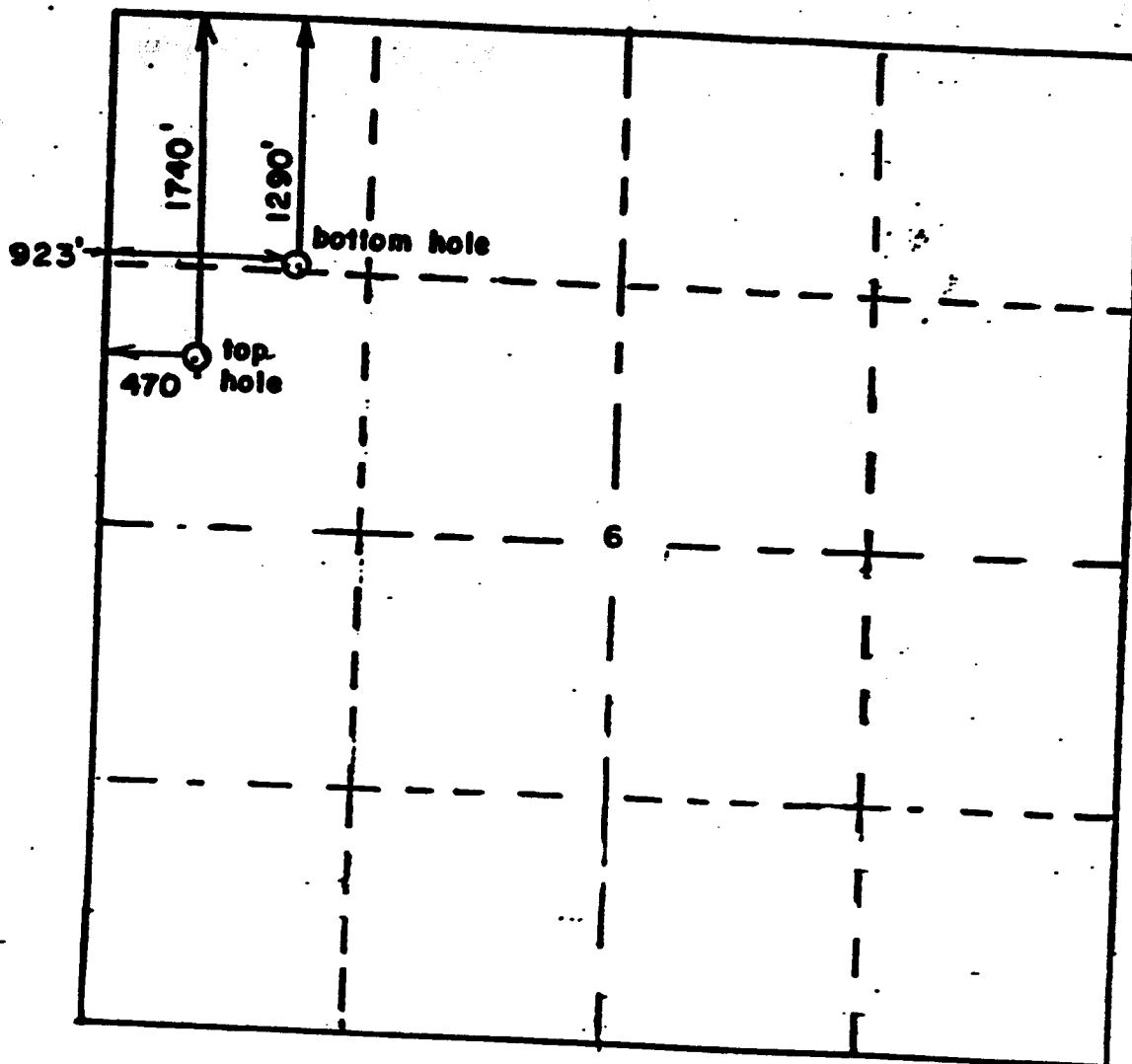
CONDITIONS OF APPROVAL, IF ANY:

*(See Instructions On Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Northwest Cajon 6-E

1740'FNL & 470'FWL (top hole)

1290'FNL & 923'FWL (bottom hole)

Section 6, T.40 S., R.25 E., SLM

San Juan County, UT

5063' ground elevation

State plane coordinates from seismic controls:

X = 2,662,774

Y = 253,511 (top hole)

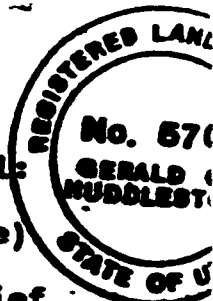
X = 2,663,209

Y = 253,982 (bottom hole)

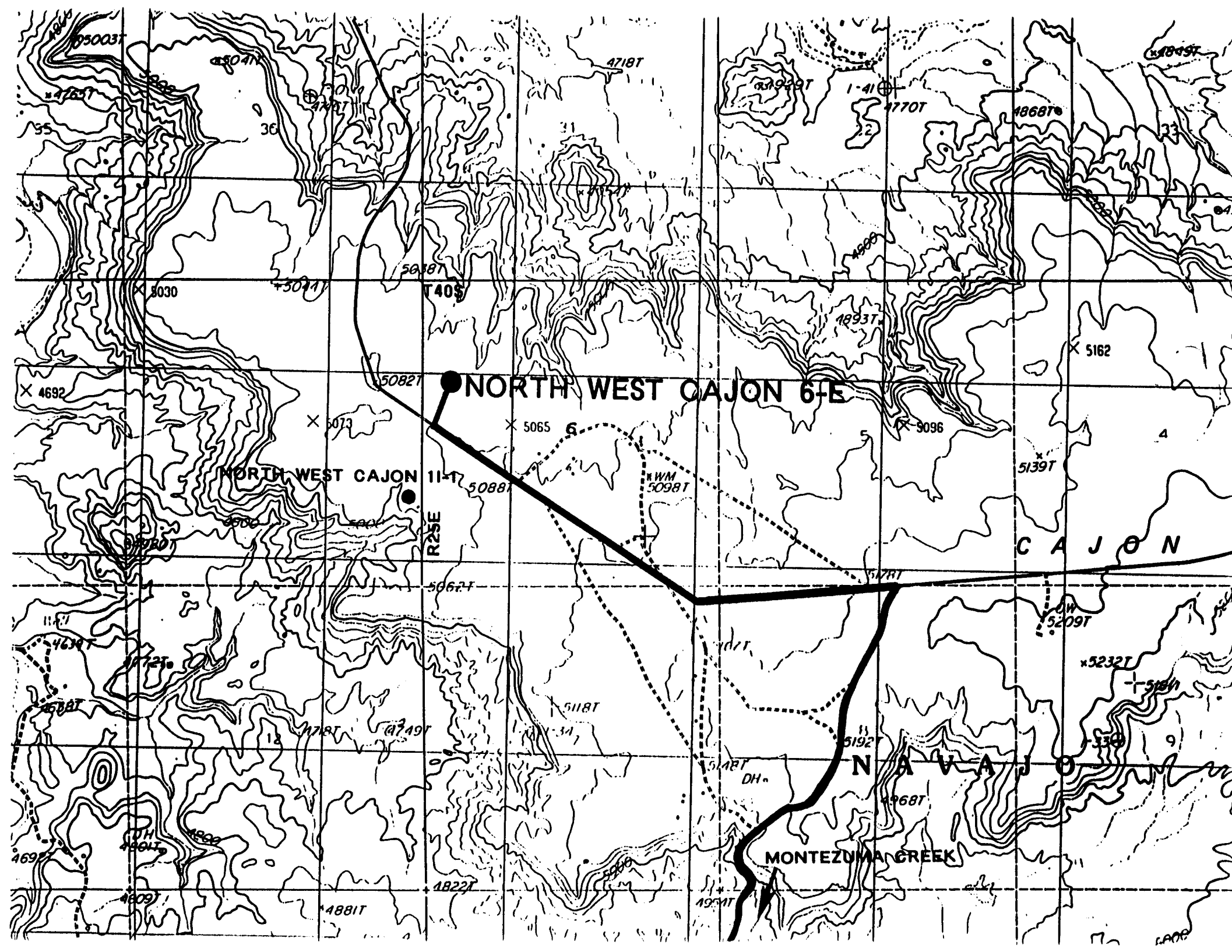
The above is true and correct to my knowledge and belief.

2 April 1991

Gerald G. Huddleston
Gerald G. Huddleston, LS



213 East Montezuma Avenue • Cortez, Colorado 81321 • 303-565-3330



PLANVIEW SKETCH

N.W. Cajon 6-E

North

1"=50'

S20°W

laydown
access
pipeline

60'

F6'

85'

F1'

175'

b

F5'

100'

C5'

30'

115'

b'

C8'

5063'

C3'

not on shot line

reserve
pit

100'

C6'

F4'

150'

F4'

C4'

a

a'

7

CROSS SECTION

N.W. Cajon 6-E

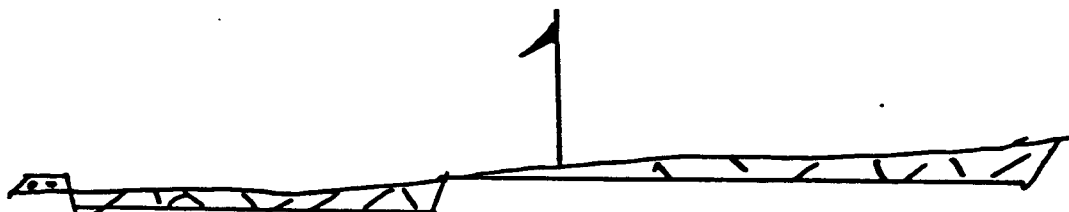
1"=50' vert. & horz.

Cut: // // // //
Fill: - - - -



c

c'



b

b'



a

a'

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

1. **SURFACE FORMATION**

Geological name of surface formation: Dakota/Burro Canyon

2. **ELEVATION**

Surface elevation is 5,063' GR/5,076' KB.

3. **ESTIMATED FORMATION TOPS**

<u>Depth</u> <u>TVD</u>	<u>Depth</u> <u>MD</u>	<u>Formation</u>	<u>Sub Sea</u> <u>Elevation</u>	
Surface	Surface	Burro Canyon	+ 5,076'	
176'	176'	Morrison	+ 4,900'	
1,260'	1,260'	Navajo	+ 3,816'	
1,948'	1,948'	Chinle	+ 3,128'	
3,050'	3,050'	DeChelly	+ 2,026'	
3,152'	3,152'	Organ Rock	+ 1,924'	
3,849'	3,849'	Cedar Mesa	+ 1,227'	
4,945'	4,963'	Hermosa 60	+ 131'	
5,880'	5,984'	Upper Ismay 5967	- 804'	
5,988'	6,102'	Lower Ismay	- 912'	Secondary
6,046'	6,166'	Desert Creek	- 970'	Primary
6,086'	6,210'	Akah	- 1,010'	
6,151'	6,281'	Total Depth	- 1,075'	

4. **PROPOSED CASING/CEMENTING PROGRAM**

	<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	6,281'	MD 5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft³) Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume calculated at 100% excess over annular volume.

Production Cementing:

First Stage

T.D. to 3,500' (stage collar @ \pm 3,500'). Lead with 242 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 159 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 629 ft³. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole. WOC 4 hours between stages.

Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 772 ft³. Cement volumes calculated at 30% excess in open hole.

Note: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (See attached schematics)

As abnormal pressure is not anticipated, a 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3,000'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps as necessary for hole cleaning.

3,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. Fluid loss to be further reduced to 15 cc or less prior to coring, logging or DSTs.

7. AUXILIARY EQUIPMENT

- A. A kelly cock ^{valve} will be installed during drilling operations, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from T.D. to 4,500'.

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

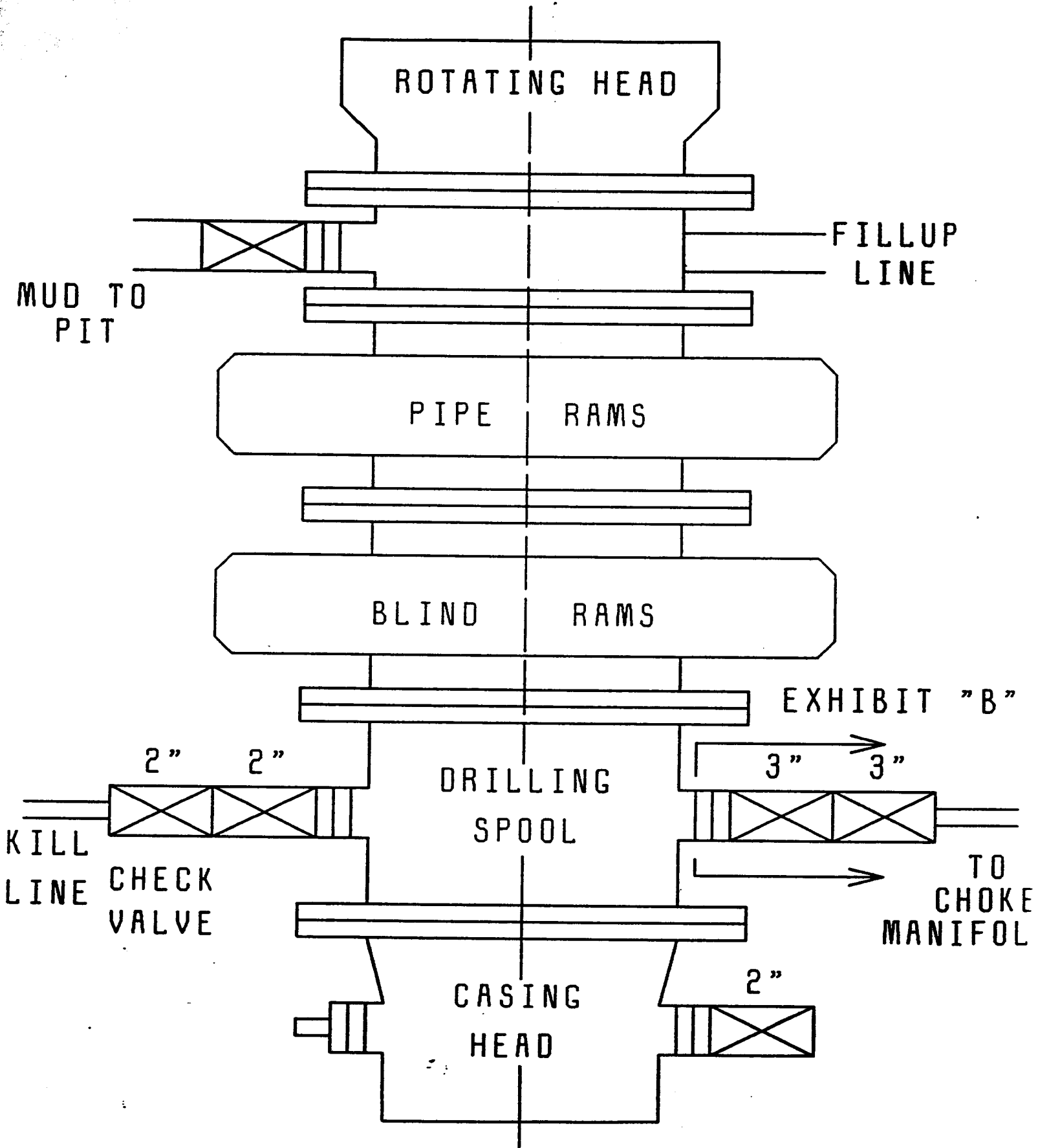
Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated to be 25 days. Anticipated spud date is 8-12-91.

EXHIBIT "A"

BLOWOUT PREVENTER



DETAILED DRILLING PROGRAM

DATE: 20 May, 1991

WELL NAME: Northwest Cajon WELL NO.: 6-E

LOCATION: Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

ELEVATION: 5,063' GR/5,076' KB

TOTAL DEPTH: 6,281' MD/6,151' TVD KB

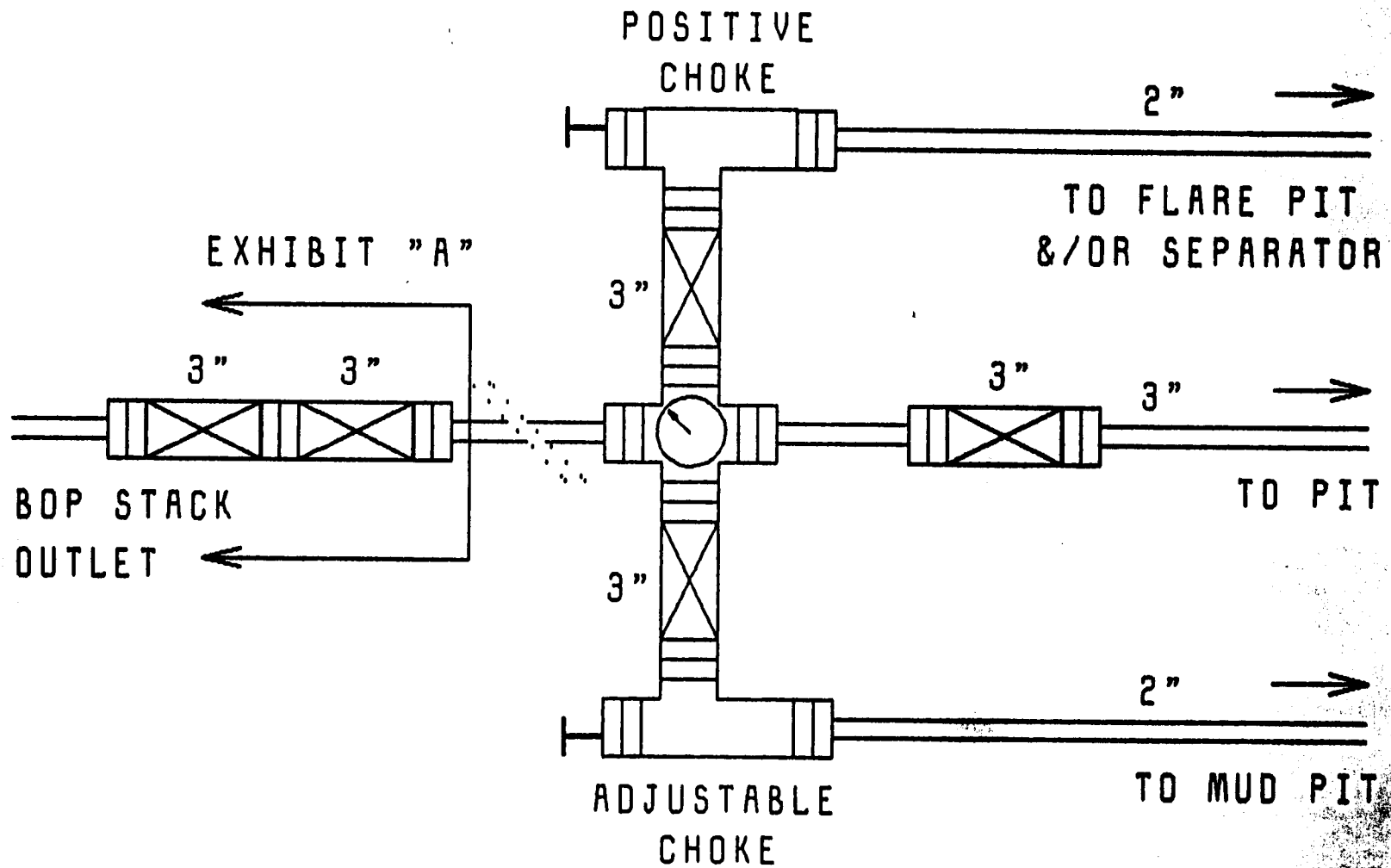
PROJECTED HORIZON: Primary target is Desert Creek at 6,166' MD.
Secondary target is Lower Ismay at 6,102' MD.

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to 4,000'. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5°, with the maximum allowable rate of change to be 1°/100'. Take directional survey at 4,000'.
8. Rig up directional tools and start building angle, with rate of build 2° per 100 ft. Directional surveys are to be taken every 100', or as directed, while building angle.

9. Build angle to 24.25° by 5,212' MD/5,177' TVD. Continue drilling 7 7/8" hole to T.D. Directional surveys are to be taken at least every 250'.
10. Run multishot survey at total depth.
11. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.
12. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at $\pm 3,500'$. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.
13. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
14. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

EXHIBIT "B"
CHOKE MANIFOLD



DETAILED DRILLING PROGRAM

DATE: 20 May, 1991

WELL NAME: Northwest Cajon WELL NO.: 6-E

LOCATION: Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

ELEVATION: 5,063' GR/5,076' KB

TOTAL DEPTH: 6,281' MD/6,151' TVD KB

PROJECTED HORIZON: Primary target is Desert Creek at 6,166' MD.
Secondary target is Lower Ismay at 6,102' MD.

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to 4,000'. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5°, with the maximum allowable rate of change to be 1°/100'. Take directional survey at 4,000'.
8. Rig up directional tools and start building angle, with rate of build 2° per 100 ft. Directional surveys are to be taken every 100', or as directed, while building angle.

9. Build angle to 24.25° by 5,212' MD/5,177' TVD. Continue drilling 7 7/8" hole to T.D. Directional surveys are to be taken at least every 250'.
10. Run multishot survey at total depth.
11. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.
12. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at $\pm 3,500'$. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.
13. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
14. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a roughly north/south trend and will only require up to 6' of cut in the reserve pit (up to 4' of cut in the north eastern corner of the location pad) and up to 6' of fill in the south western corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87401
LARRY G. SESSIONS

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed on the Hovenweep road. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that less than 800' of new road will need to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The location of the North West Cajon 11-1 well is indicated on the attached topographic map.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

Northwest Cajon Well No. 1
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Northwest Cajon Well No. 6-E
Section 6, Township 40S, Range 25E
1740' FNL, 470' FWL (Surface)
1290' FNL, 923' FWL (Bottomhole)
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed on the Hovenweep road. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that less than 800' of new road will need to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The location of the North West Cajon 11-1 well is indicated on the attached topographic map.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a roughly north/south trend and will only require up to 6' of cut in the reserve pit (up to 4' of cut in the north eastern corner of the location pad) and up to 6' of fill in the south western corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11.

OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87401
LARRY G. SESSIONS

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.


LARRY G. SESSIONS
Operations Manager

CHUSKA ENERGY COMPANY

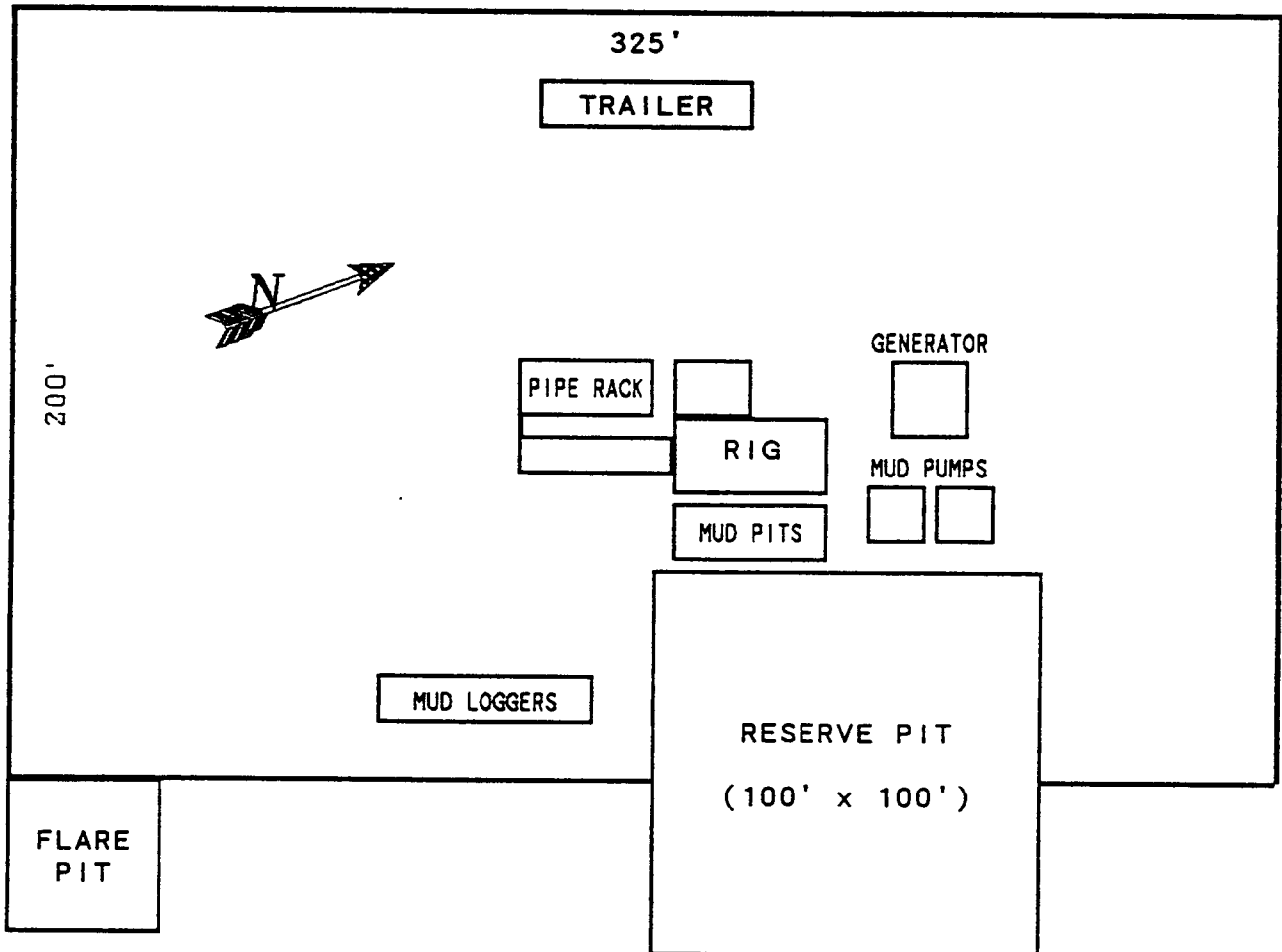
LOCATION LAYOUT

NORTH WEST CAJON-6-E

1740' FNL, 470' FWL

SECTION 6, TOWNSHIP 40S, RANGE 25E

SAN JUAN COUNTY, UTAH





United States Department of the Interior

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LAPLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

TAKE
PRIDE IN
AMERICA

IN REPLY REFER TO:
3162.3-1 (019)

Chuska Energy Company
#6-B Northwest Cajon
NOG-8702-1116
NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T. 40 S., R. 25 E.
San Juan County, Utah

Above Data Required on Well Sign

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

In addition to those requirements set forth in the laws, regulations and Onshore Orders, these requirements apply generally to all oil and gas operations on Federal and Indian leases. They apply specifically to the above-described well. Special requirements that apply and are effective for this well, if any, are check-marked in Section VII of these General Requirements. The failure of the operator to comply with these requirements and the filing of required reports will result in strict enforcement of 43 CFR 3163.1 or 3163.2.

I. GENERAL

A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.

B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or allotted. (see 43 CFR 3162.6(b)).

C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.

D. For Wildcat wells only, a drilling operations progress report is to be submitted weekly from spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8 1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.

E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).

2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.

3. Two copies of all electrical and open-hole logs run (two copies of the mud log are required if no open hole electric logs are run).

4. A cement evaluation log if cement is not circulated to surface.

III. DRILLER'S LOG

A. The following shall be entered in the daily driller's log:

1. Blowout preventer pressure tests, including test pressures and results.
2. Blowout preventer tests for proper functioning.
3. Blowout prevention drills conducted.
4. Casing run, including size, grade, weight, and depth set.
5. How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc..
6. Waiting on cement time for each casing string.
7. Casing pressure tests after cementing, including test pressure and results.
8. Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

IV. GAS FLARING

A. Gas produced from this well may not be vented or flared beyond an initial, authorized test period of ____*____ days or 50 MMcf following its (completion) (recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

* 30 days, unless a longer test period specifically is approved by the authorized officer. The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion.

1

BLM ENVIRONMENTAL STIPULATIONS

Operator Chuska Energy Well Name 6-E Northwest Cajon
1740' FNL/470' FWL
Legal Location 1290' FNL/923' FWL Sec. 6 T. 40 S. R. 25 E.
Lease Number NOG-8702-1116 Field Inspection Date 3/28/91

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.3 or 3163.4. A copy of these stipulations shall be present on the location during construction, drilling and reclamation activity.

An agreement between the operator and fee land owner will take precedence over BLM surface stipulations unless 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface (43 CFR Part 3160), or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance (43 CFR Part 3162.7-4), or 3) no such agreement exists (43 CFR Part 3160), or 4) in the event of well abandonment, minimal Federal restoration requirements will be required (43 CFR Part 3162.7-2).

I. LOCATION AND ACCESS ROAD

A. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site. Trash cages will be used for all solid waste and removed from location to an approved solid waste disposal site. No solid waste shall be put in reserve pit before, during or after drilling operations.

B. Piñon-juniper trees and brush will be uprooted from road ROW and well pad locations and distributed along ROWs and stockpiled beside well pads for fuelwood salvage. Care will be taken to keep trees as undamaged as practically possible. Large vegetation such as sagebrush, juniper and piñon will not be incorporated into pit walls. All uprooted vegetation will be scattered on the reclaimed portion of location so it does not detract from the natural appearance of the area.

C. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.

D. Mud pits and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawlertype tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.

E. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with N.M. State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area.

F. No gravel or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.

G. Prior to crossing, using or paralleling any improvement on public land, operator shall contact the owner of the improvement to obtain mitigating measures to prevent damage to improvements.

H. All cut fences are to be tied to braces prior to cutting. The opening will be protected during construction to prevent the escape of livestock. A temporary closure will be installed on all cut fences the same day the fence is cut. A permanent cattleguard will be installed and maintained in any cut fence unless otherwise stipulated in writing. A twelve-foot gate will be installed adjacent to all new cattleguards.

I. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank.

J. All roads on public land must be maintained in good passable condition.

K. A proposed use of pesticide, herbicide or other possible hazardous chemical on BLM land shall be cleared for use prior to application.

CULTURAL RESOURCES (ARCHAEOLOGY)

A. EMERGENCY DISCOVERY IN THE ABSENCE OF MONITORING: This stipulation applies in emergency discovery situations where monitoring for cultural resources was not being performed because the presence of cultural resources could not have been anticipated. If, in its operations, operator discovers any historic or prehistoric ruin, monument, or site, or any object of antiquity subject to the Antiquities Act of 1979, and 43 CFR Part 3, then work will be suspended and discovery promptly reported to BLM Area Manager. BLM will then specify what action is to be taken. BLM will evaluate the discovery, evaluate its significance, and consult with the State Historic Preservation Officer. Minor recordation, stabilization, or data recovery may be performed by BLM. However, more significant mitigation shall be carried out by a qualified, permitted archeologist. It is BLM's responsibility to ensure that such mitigation is carried out in accordance with 36 CFR Part 800.11. Given the timeframes involved in BLM's budgeting process, operators are strongly encouraged to fund such required mitigation. Further damage to significant cultural resources and operations in its vicinity will not be allowed until any required mitigation is successfully completed.

B. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: This stipulation applies to situations where archeological monitoring was taking place because local geologic conditions favored the presence of subsurface archeological sites in the project area. If monitoring confirms the

presence of subsurface sites, all work will cease in the site area. The monitor will immediately report this find to BLM Area Manager. BLM will specify what further steps must be taken to assess the damage to the site and to mitigate any adverse effects to it. Monitoring in these circumstances is considered to be a form of inventory and the operator will be responsible for obtaining at his/her expense a qualified permitted archeologist to complete a damage assessment report and to carry out any mitigation required by the BLM.

C. **DAMAGE TO PREVIOUSLY IDENTIFIED SITE:** This stipulation applies to situations where operations have damaged a previously identified archeological site that was visible on the surface. If, in its operations, operator damages, or is found to have damaged, any historic or prehistoric ruin/monument/or site/or any object of antiquity subject to the Antiquities Act of 1906, the Archeological Resource Protection Act of 1979, and 32 CFR Part 3, the grantee will prepare and implement a data recovery plan at his/her expense. The grantee will obtain at his/her expense, a qualified permitted archeologist to carry out the specific instruction of BLM.

RESEEDING AND ABANDONMENT

A. All surface areas disturbed during drilling activities and not in use for production activities, will be reseeded the first July-September period after reserve pit has been filled in and/or location abandoned. For producing locations, this should occur in the first 12 months after drilling is completed.

B. After top soil has been placed on location, compacted areas of well pad will be plowed or ripped to a depth of 12" before reseeding. The surface should be left rough to help retain rain fall. All seeding is recommended to be done between July 1 and September 15. Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted between one-half inch deep and three quarter inch deep. The seeder will be followed with a drag, packer or roller to insure uniform coverage of seed, and adequate compaction. Drilling of the seed will be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder will be used, after preparation of an adequate seed-bed. Seed will then be covered to a depth described above by whatever means is practical. Mulching, excelsior netting and/or netting may be required on steep slopes.

C. After seeding, remaining rocks and vegetation (trees, brush, etc.) should be placed on the seeded areas using back hoes or rubber tired front-end loaders.

D. If, in the opinion of the SMA, the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

E. If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a deadend ditch and earthen barricade at the entrance to these ripped areas. (Reseeding of affected areas may be required).

Company Chuska Energy
Well# Northwest Cajon 6-E
Date of Inspection 3-28-91
Provided by R Cornett

1. All above ground structures and equipment will be painted with the following non-glare color.

2. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. Seed will be drilled to a depth of .5 to .75 inch or broadcast and followed by a drag or packer. If broadcast, the recommended seed mix will be applied at 150% of the recommended rate. The following seed mix will be used.

(Purity x Germination = PLS)

3. ☒ The top 10 inches of soil will be salvaged, stockpiled, and stabilized on the side/corner of the well pad and/or in the "L" corner of the well pad and reserve pit for use in revegetating the site.
4. NA Upon abandonment, the well pad will be fenced with a standard five-strand barbed wire fence, or equivalent and will have no gates. The fence will be maintained for two years to allow for seeding establishment and will then be removed.

17. ☒ Storage tank (s) installed on the location will be surrounded by a dike of sufficient capacity to contain $1\frac{1}{2}$ times the storage capacity of the tank (s).
18. ☒ The stipulations set forth in the archeological clearance letter dated 4/23/91 will be strictly adhered to. Clearance No. NNAD-91-072
19. ☒ Upon abandonment, all material brought in to plate the surface of the well pad and/or the access road will be cleaned up and disposed of prior to re-seeding.
20. NA The construction work conducted at this location will need to be inspected before the drill rig is moved on the location.

ALL CHANGES/DEVIATIONS MADE FROM THE APPROVED APD MUST BE CLEARED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY. THE SURFACE MANAGEMENT AGENCY CAN BE CONTACTED AT (505) 368-~~4927~~.

OTHER:

ENTITY ACTION FORM - FORM 6

OPERATOR Chuska Energy Company
ADDRESS 3315 Bloomfield Highway
Farmington, N.M. 87401

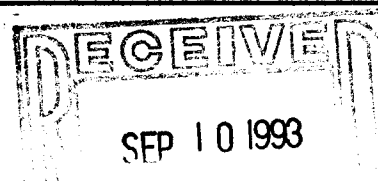
OPERATOR ACCT. NO. N 9290

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99998 →		43-037-31627	Northwest Cajon 6E Well	NWNW	6	40S	25E	San Juan	8-27-91	
WELL 1 COMMENTS: Spudded 2000 hrs, 8-27-91. Drilled to 526'. Ran and cemented surface casing at 526'. <i>Well PA'd 9-18-91. Lee</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.



Signature _____

Title _____

Date _____

Phone No. () _____

DIS

COPY

September 30, 1991

TO: File

FROM: Frank Matthews

RE: NW Cajon 6E, Sec. 6, T. 40S, R. 25E, San Juan County,
API No. 43-037-31627

Well was plugged and abandoned on 9/18/91 per Glenn Goodwin.

Handle as
WCF
DTS
10-3-91

CONFIDENTIAL

PETROLEUM INFORMATION
DAILY ACTIVITY REPORT
SECTION II - 10/09/91

PAGE 4

COMPLETION SUMMARY

MONTANA CONTINUED

PHILLIPS COUNTY

FREEPORT-MCMORAN INC
0170-2 RAY MCMULLEN
API 25-071-22102

1-37N-30E
NW SW
1400 FSL 605 FWL
IC 250717001191

LORING EAST; PERMIT # S13262; 1970 PHILLIPS, (FR 04/15/91CA) OPER
ADD: BOX 60004, NEW ORLEANS, LA, 70160 PHONE (504) 582-4184; EL:
2779 KB; LOCATION DATA: IRREG SEC; 45 MI N-NE MALTA, MT; AMMANN
BASE MAP MT-4,

DG
GAS

CONTR: ELENBURG EXPL; SPUD: 08/04/91, CSG: 7 @ 159 W/65 SX, 4 1/2 @ 1997 W/225 SX; LOG TYPES: BHCS 0-2000, CNL 0-2000, GRL 0-2000,
LDT 0-2000; LOG TOPS: BOWDOIN 1563, GREENHORN 1775, PHILLIPS 1794; 2000 TD. (TD REACHED: 08/16/91); PRODUCING INTERVAL(S)
DATA: PERF (BOWDOIN) 1580-1657 W/2 PF, PERF (GREENHORN) 1775-1809 W/2 PF, (GREENHORN/PHILLIPS 1775-1809) SGFR (1580-1657) W/ 100041
LBS SAND, GEL WTR 12/20 SD SGFR W/ 40216 LBS SAND, GEL WTR 12/20 SD 2000 TD. COMP 8/21/91, IPF 74 MCFGPD. PROD ZONE -
BOWDOIN 1580-1657, GREENHORN/PHILLIPS 1580-1809. COMMINGLED. NO CORES OR DSTS. HOLDING FOR DATA .. (LDIR 10/08/91)

FREEPORT-MCMORAN INC
3 LORING
API 25-071-22096

2-37N-30E
NW SE SE
1118 FSL 945 FEL
IC 250717010291

BOWDOIN; PERMIT # S 13255; 1990 PHILLIPS, (FR 04/04/91CA) OPER ADD:
BOX 60004, NEW ORLEANS, LA, 70160 PHONE (504) 582-4184; EL: 2814 KB;
LOCATION DATA: 41 MI N-NE MALTA, MT; AMMANN BASE MAP MT-4,

DG
GAS

CONTR: ELENBURG EXPL. RIG #2; SPUD: 07/17/91, CSG: 7 @ 156 W/65 SX, 4 1/2 @ 2007 W/225 SX; LOG TYPES: BHC 0-2015, CNL 0-2015, GRL
0-2015, LDT 0-2015, SONL 0-2015; LOG TOPS: BOWDOIN 1584, GREENHORN 1807, PHILLIPS 1826; 2015 TD. (TD REACHED: 08/18/91); PRODUCING
INTERVAL(S) DATA: PERF (BOWDOIN) 1623-1688 W/2 PF, PERF (GREENHORN) 1807-1837 W/2 PF, (GREENHORN/PHILLIPS 1807-1837) SGFR
(1623-1688) W/ 88343 LBS SAND, GEL WTR 12/20 SD SGFR (1807-1837) W/ 40719 LBS SAND, GEL WTR 12/20 SD 2015 TD. COMP 8/19/91, IPF 54
MCFGPD. PROD ZONE - BOWDOIN 1623-1688, GREENHORN/PHILLIPS 1807-1837. COMMINGLED. NO CORES OR DSTS. HOLDING
FOR DATA .. (LDIR 10/08/91)

NEBRASKA

HAYES COUNTY

GOLDEN EAGLE
1 VONNA MOODY
API 26-085-21123

34-7N-35W
C SE SW
660 FSL 1980 FWL

WILDCAT; 5000 BASAL SD, (FR 09/24/91DN) OPER ADD: BOX 55, MCCOOK,
NE, 69001 PHONE (308) 345-3839; EL: 3124 GR; LOCATION DATA: 13 MI
W-NW LEFFLER FLD(BASAL) 8 MI NE WAUNETA, NE; AMMANN BASE MAP
NE-9,

WF
D&A

CONTR: GOLDEN EAGLE DRLG, RIG #3; SPUD: 09/25/91, 5000 TD. (TD REACHED: 10/02/91); 5000 TD. COMP 10/7/91, D&A. HOLDING FOR
DATA .. (LDIR 10/08/91)

UTAH

SAN JUAN COUNTY

CHUSKA ENERGY
6-E NORTHWEST CAJON
API 43-037-31627

6-40S-25E
NW SW NW
1740 FNL 470 FWL
IC 430377003191

UNNAMED; 6281, PROJ TVD: 6151, (FR 05/28/91DN) OPER ADD: 3315
BLOOMFIELD HWY, FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL:
5063 GR; LOCATION DATA: 1/2 MI N-NE OF FLD(DESSERT CREEK)DISC 8 1/2
MI N ANETH, UT; TO BE DIRECTIONALLY DRILLED. PBHL: 1290 FNL 923
FWL SE NW NW 6-40S-25E; AMMANN BASE MAP UT-9,

WO
D&A

CONTR: AZTEC WELL SRVCG, RIG #222; SPUD: 08/28/91, CSG: RAN SURF CSG; 6280 TD. (TD REACHED: 09/17/91); 6280 TD. COMP 9/18/91,
D&A. HOLDING FOR DATA .. (LDIR 10/08/91)

WYOMING

CAMPBELL COUNTY

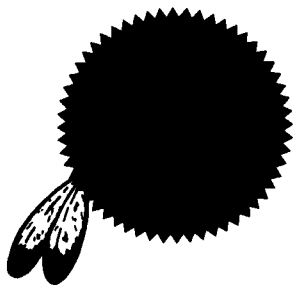
OSBORN HEIRS
5 STATE
API 49-005-30247

16-50N-69W
SW SW NE
1990 FNL 2185 FEL
IC 490057012391

WILDCAT; 8350 MINNELUSA, (FR 08/26/91DN) OPER ADD: BOX 17968, SAN
ANTONIO, TX, 78286 PHONE (512) 826-8784; EL: 4297 GR; LOCATION
DATA: 3/4 MI NE ROZET FLD(MUDDY/MINNELUSA) 6 1/2 MI N ROZET, WY;
AMMANN BASE MAP WY-2, WELL ID CHANGES: ELEV CHGD FROM 4308
GR.

WF
D&A

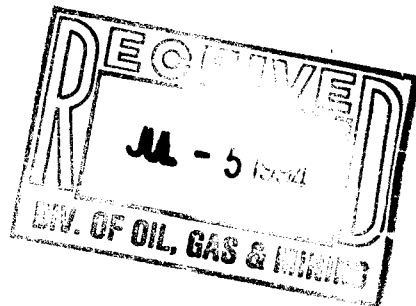
CONTR: EXETER DRLG, RIG #34; SPUD: 09/21/91, 8350 TD. (TD REACHED: 10/02/91); 8350 TD(APPROX). COMP 10/3/91(EST), D&A. HOLDING
FOR DATA .. (LDIR 10/08/91)



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

June 30, 1994



Mr. Mike Hebertson
State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 85180

Dear Mike:

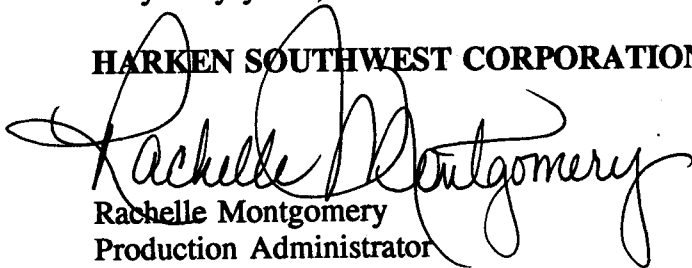
Pursuant to your request enclosed are the Directional Surveys for the following wells:

Mule 31K 43-037-31617	Sec 31 T41S R24E
N. Cajon Mesa 5E#1 43-037-31624	Sec 5 T40S R25E
X N.W. Cajon Mesa 6E 43-037-31627	Sec 6 T40S R25E
D.C. Anticline 35K 43-037-31726	Sec 35 T41S R23E
Lark 19B 43-037-31731	Sec 19 T42S R24E

Should you need additional information please let me know.

Very truly yours,

HARKEN SOUTHWEST CORPORATION


Rachelle Montgomery
Production Administrator

RM/jkw

Enclosure

CHUSKA ENERGY COMPANY
Northwest Cajon No. 6-E, Northwest Cajon #6-E
Sec. 6-1405-R25E, SAN JUAN COUNTY, UTAH

SURVEY LISTING Page 1
Your Ref : Northwest Cajon #6-E
Last revised : 12-Sep-91

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
1214.00	0.00	0.00	1214.00	0.00 N	0.00 E	0.00	0.00
2086.00	3.50	346.00	2085.46	25.83 N	6.44 W	0.40	14.61
2584.00	2.50	347.00	2582.77	51.17 N	12.56 W	0.20	29.06
3083.00	2.00	16.00	3081.40	70.14 N	12.61 W	0.24	42.97
3442.00	1.75	21.00	3440.21	81.28 N	8.92 W	0.08	53.66
3534.00	2.75	20.00	3532.13	84.67 N	7.66 W	1.09	57.00
3566.00	4.50	22.00	3564.07	86.55 N	6.93 W	5.48	58.88
3596.00	4.50	11.00	3593.98	88.80 N	6.26 W	2.87	60.98
3658.00	4.50	27.00	3655.79	93.35 N	4.69 W	2.02	65.40
3689.00	4.50	41.00	3686.69	95.36 N	3.34 W	3.53	67.78
3721.00	5.50	47.00	3718.57	97.35 N	1.40 W	3.52	70.56
3783.00	7.25	52.00	3780.19	101.78 N	3.86 E	2.96	77.39
3845.00	9.00	51.00	3841.56	107.24 N	10.71 E	2.83	86.05
3947.00	9.75	48.00	3942.20	118.04 N	23.33 E	0.88	102.55
4040.00	9.75	48.00	4033.86	128.58 N	35.03 E	0.00	118.23
4134.00	10.00	47.00	4126.46	139.48 N	46.92 E	0.32	134.29
4227.00	10.25	47.00	4218.01	150.62 N	58.87 E	0.27	150.60
4322.00	11.00	50.00	4311.39	162.22 N	72.00 E	0.98	168.02
4412.00	11.00	49.00	4399.73	173.37 N	85.06 E	0.21	185.07
4475.00	11.00	49.00	4461.58	181.26 N	94.13 E	0.00	197.02
4594.00	12.00	49.00	4578.18	196.82 N	112.03 E	0.84	220.60
4687.00	12.50	48.00	4669.07	209.90 N	126.81 E	0.58	240.23
4780.00	13.00	48.00	4759.77	223.63 N	142.06 E	0.54	260.67
4906.00	14.50	44.00	4880.22	244.13 N	163.21 E	1.43	290.08
4967.00	14.75	42.00	4941.18	255.76 N	174.06 E	0.89	305.98
5029.00	14.75	47.00	5001.14	267.01 N	185.11 E	2.05	321.75
5092.00	15.50	42.00	5061.96	278.74 N	196.61 E	2.39	338.16
5123.00	15.00	45.00	5091.87	284.65 N	202.22 E	3.01	346.31
5155.00	15.00	47.00	5122.78	290.41 N	208.18 E	1.42	354.58
5185.00	15.50	43.00	5151.72	295.99 N	213.75 E	3.88	362.46
5216.00	15.00	41.00	5181.63	302.04 N	219.21 E	2.34	370.61
5250.00	14.50	40.00	5214.51	308.62 N	224.83 E	1.65	379.26
5306.00	14.60	43.00	5268.71	319.16 N	234.15 E	1.36	393.32
5337.00	15.00	47.00	5298.68	324.75 N	239.75 E	3.54	401.23
5399.00	14.00	51.00	5358.71	334.96 N	251.44 E	2.28	416.66
5461.00	14.20	53.00	5418.84	344.24 N	263.34 E	0.85	431.56
5523.00	14.50	55.00	5478.91	353.27 N	275.78 E	0.93	446.43
5586.00	14.80	56.00	5539.86	362.29 N	288.91 E	0.62	462.16

All data is in feet unless otherwise stated
Coordinates are from slot #2 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 42.72 degrees.
Calculation uses the minimum curvature method.